

The National Locksmith®

September 2005
Volume 76
No. 9
\$7.00

Shop the online store!
TheNationalLocksmith.com

page
10



DAP-Key™ by Keystone Access

A keyless remote replacement.

page
34

Gun Security

An array of products to fit any customers needs.

page
50



Car Opening Tools & Procedures

Tools, opening procedures and reference material.

Which HPC Blitz™

is right for you?

Patent Numbers: 4,117,763 • 4,090,303 • 4,012,991

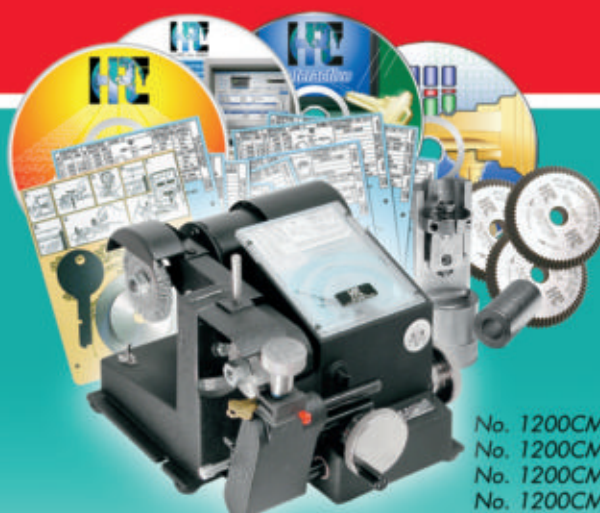


No. 1200CMB
No. 1200CMBDC
No. 1200CMBACDC
No. 1200CMB240V

The Original Blitz™

*"The Standard of the Industry" since 1978.
The first choice of locksmiths worldwide!*

- 2 Cutters (CW-1011 and CW-14MC)
- 150 Code Cards
- CodeSource® Lite



No. 1200CMBX
No. 1200CMBXDC
No. 1200CMBXACDC
No. 1200CMBX240V

Extreme Blitz™

For the locksmith who wants it all. Ideal for a new locksmith, a second shop, or new van!

- 3 Cutters (CW-1011, CW-14MC, CW-47MC)
- 175 Code Cards
- 4 Software Titles (CodeSource® Plus, MasterKing®, How To Create Master Key Systems, and Interactive Depth and Space Guide)
- Tubular Key Adapter
- Calibration Kit



No. 1233CMSB
No. 1233CMSBDC
No. 1233CMSBACDC
No. 1233CMSB240V

The Switch Blitz™

*Combination Code Machine and Semi-Automatic Duplicator in 1 machine.
A great first machine!*

- 3 Cutters (CW-1011, CW-14MC, CW-6010)
- 150 Code Cards
- CodeSource® Lite
- Additional Patent Pending



No. 1200B
No. 1200BDC
No. 1200B240V

Base Model Blitz™ (machine only)

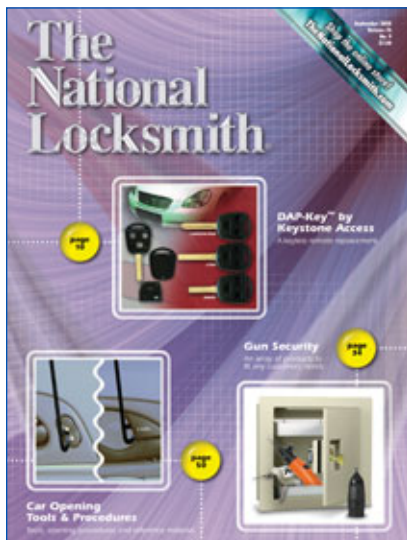
The perfect second machine. Use your existing cards and cutters to make it a dedicated machine for keys you cut most often.



HPC, Inc.
3999 N. 25th Avenue
Schiller Park, IL 60176 USA
Tel: 847.671.6280
Fax: 847.671.6343
www.hpcworld.com

Circle 220 on Rapid Reply

On The Cover...



Automotive tools and opening procedure information by some of the industry's leading manufacturers, plus the latest in gun safes & security and a transponder guide.

Publisher Marc Goldberg
Editor Greg Mango
Art Director Jim Darow
Technical Editor Jake Jakubowski
Senior Writers
 Sal Dulcamaro CML, Michael Hyde,
 Dale Libby CMS, Dave McOmie, Sara Probasco,
 Robert Sieveking
Contributing Writers
 John Blankenship, Tony Blass,
 Ron & Chris Curry, Mark Daniel,
 Richard Allen Dickey, Ken Holmlund,
 Tom Lynch, Tom Mazzone, Randy Mize,
 Bill Phillips, Tom Seroogy, Steve Young
Director of Sales & Marketing Jeff Adair
Advertising Account Manager Debbie Schertzing
Accounting Manager Sheila Campo
Production Assistants
 Dave Krofel, Joseph Bonus
Administrative Assistants
 LaVerne Schertzing, Chandra Smith
Shipping Manager Allan Galvez

National Publishing Company

The National Locksmith® ISSN #0364-3719 is published monthly by the National Publishing Co., 1533 Burgundy Parkway, Streamwood, Illinois 60107-1861. Periodicals postage paid at Bartlett, Illinois 60107 and additional mailing offices USPS 040110. Subscriptions \$46.00 per year in the USA; \$58.00 per year in Canada; \$72.00 in all other countries. Single copies \$7.00 each. Postmaster, please send change of address to National Publishing Co., 1533 Burgundy Parkway, Streamwood, Illinois 60107-1861.
 ©2005 by the National Publishing Company.
 All rights reserved. Printed in the U.S.A.



(630) 837-2044 • Fax: (630) 837-1210
 E-Mail: natlock@aol.com
 See us on the World-Wide Web:
 www.TheNationalLocksmith.com

CONTENTS

The National Locksmith®

September 2005 • Vol. 76, No. 9

FEATURES

10 COVER FEATURE DAP-Key™, by Keystone Access

A keyless remote replacement.



12 STRATTEC Transponder Guide

A sample look into STRATTEC's latest information guide.



22 2004 Ford F150

Utilizing the new Ford Controller Area Network (CAN).



28 An Aluminum Stile Door In a Box! Part 2

Assembling the frame and installing this unit in an opening.



34 COVER FEATURE Gun Security

An array of products to fit any customers needs.



40 A-1 Pick and Decode Tools for GM Ignitions

Two popular A-1 automobile lock defeat tools in one neat package.



50 COVER FEATURE Car Opening Tools & Procedures

Tools, opening procedures and reference material.



68 Schwab Media Safe Repair

Located at The National Locksmith.



94 2002 Suzuki Intruder Volusia

There are three locks on this bike.

DEPARTMENTS

5 Commentary

6 Mango's Message

8 Letters

60 Beginner's Corner

66 The Lighter Side

84 Technitips

102 Test Drive

AUTO-SECURITY PRODUCTS

ASP, INC. • P.O. BOX 10 • REDMOND, WA • 98073 • PH: 425-556-1900 / FAX: 425-558-1205

T-CODE MVP



T-Code-CP2 \$4599.00

New Software

GTO/Ford

Part # T-CODE-3FGTO
(Cable + Adapter included)
\$450.00

Mazda CAN

Part # T-CODE-2MZCAN \$450

Kia

Works on the Amanti
Part # T-CODE-1KIA \$250

Hyundai

Part # T-CODE-1HYN \$250

Subaru

Part # T-CODE-1S \$375

Audi/VW

PIN Code Extraction
"EMS" FREE on
Beta version download

New MVP 1299.00 w/5 tokens

All Software Updates are FREE

GTO/FORD, Mazda CAN,
Kia and Hyundai.



Current Hardware

ADC-128 \$110
GTO Cable

ADC-119 \$110
Ford Enhancement Adapter



**Buy both
for \$195**



MEGA CODES / \$249.00

**These Code Series are found on
Toyota & Lexus models worldwide**

➤ *Enter the code and see the cuts*

Available at your favorite ASP Distributor





You know what scares me?

The generation ahead of me, the ladies and gentlemen of the locksmith industry, are starting to retire. It's one thing when the older folks begin to hang it up and spend more time with the family and golfing. But it's quite another when your friends, customers and colleagues do it.

That brings you right back to when you started, and it makes you think and remember. We received a press release not long ago announcing the retirement of Tom Nazziola, VP International Sales for Kaba Access Controls.

Tom Nazziola is *retiring*?? *Retiring*??

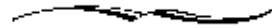
Now I *must* be getting old. Old enough to remember things that happened years ago without being able to remember something so trivial as the actual year. So I can tell you that I distinctly recall the year that the NLSA (now SHDA) held a talent show as part of the annual conference.



Tom Nazziola was going to get up on stage and play guitar. Tom, I'm sorry to admit, but I had low expectations. I figured we'd be in a little bit of pain watching you strum Kumbaya or Where Have All The Flowers Gone.

Tom got up on the stage, not with a worn out acoustic guitar, but with a shiny, chromed electric guitar. And when he hit that instrument with the first chord and started to sing, I was pretty sure that Elvis had *not* left the building. Needless to say, Tom Nazziola raised the roof that day, and probably sales as well. You don't often meet such gentlemen, but Tom, thanks for having shared

your life with us all these years. It won't be the same without you...but the show must go on.



Greg has been reporting about a locksmith scam uncovered in Chicago where individuals are scamming customers around the country with price gouging and intimidation. Read more about it: <http://www.suntimes.com/output/news/cst-nws-lock01.html>.

And speaking of Greg, I have been asked what happened to Greg's Handle. Disappointing though this may be to reveal, Greg did *not* procrastinate for months before he fixed our safe handle. He's too smart for that.

He got Dale Libby to do it instead. Dale showed up wearing a fine pair of shoes, and asked that this be noted for the record. Duly noted.

Thanks Dale and Greg for fixing our safe in record time, and thus robbing me of many happy articles I could have written. Rats!

Marc Goldberg



Have questions? Want free technical help?
Free Locksmith Forums!

www.TheNationalLocksmith.com

Marc Goldberg
Publisher

Mango's Message

E-Bay Deals

How many of you shop the Internet auction sites such as E-Bay or Yahoo for merchandise? If you don't, you may be surprised at what you can find.

If you have the time and patience to search, you can find some spectacular deals on these sites. If I'm in the market for anything—and I mean anything—I always search the Internet to compare prices, find a deal, or just learn more about the item I am interested in.



Recently, I was in the market for a set of earphones for an Apple iPod MP3 player I have. The earphones that came with the iPod are good, but they didn't fit my ears properly. I recently took a 3 1/2 hour flight to the California, Orange County area and my iPod was heaven sent, listening to my favorite music the whole way, causing the time to pass quite rapidly. However, the earphones were a bit disconcerting the entire way there and back. When I returned home, I knew I needed another set because just two weeks later I would be on another flight, this time to San Francisco, CA, another 3 1/2 hour trek, and my iPod was going as well.

That weekend my wife and I spent a day at her favorite place—the mall. While she spent the day looking at designer girlie clothes, I went to the men's store—Apple electronics.

Perusing the iPod accessories isle, there were several earphones to choose from, ranging from \$49 to \$349. Most of which were a little more than I wanted to spend. Besides, I knew I could find the exact same things on E-Bay for less.

After doing comparative pricing and specification research on all the main brands I would consider, such as Shure, Etymotic, Sony, Ultimate Ears, Bang & Olufsen, and deciding exactly what I was willing to spend, I began my E-Bay quest.

I narrowed my search down to two brands and models. The Sure E3c, \$199 retail, and Etymotic ER 6i, \$149 retail. Both highly rated products from manufacturers well known for sound quality. In the end I purchased a brand new set of



Etymotic ER 6i, which were \$149 in the Apple store, for \$82.99 on E-Bay. And you can find just about anything you would want for your home, business or hobbies there, new or used.



Need a Diebold Group 2 combination lock for \$9.99? Car opening kit for \$15.50? Arrow lever lock for \$10.00? Maybe a four drawer file cabinet for \$10.50! Now, you do have to consider that there is often shipping costs that need to be factored in, but you don't have to pay sales taxes if purchasing outside your state.

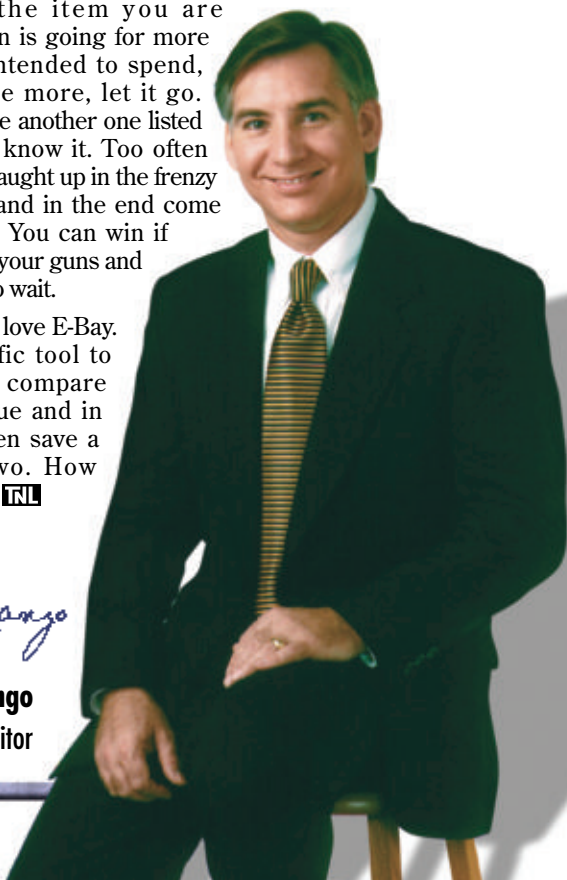
At times searching E-Bay does require patience, persistence and tenacity, but if you poses those characteristics you can save a bunch of money. You can also loose a bunch if you aren't savvy about the purchases you are making. In several instances I have found items on E-Bay selling for more than I could buy them for in the store, so you do have to know the real value of things.

The key to online auction buying is knowing what you are willing to spend and sticking to that price. If the item you are interested in is going for more than you intended to spend, even a little more, let it go. There will be another one listed before you know it. Too often people get caught up in the frenzy of the buy and in the end come out a loser. You can win if you stick to your guns and are willing to wait.

Yes, I do love E-Bay. It's a terrific tool to shop with, compare market value and in the end even save a buck or two. How bad is that? **TM**

Greg Mango

Greg Mango
Editor



The New Strattec ROCK Key

The ROCK key features a large heavy-duty head in the shape of a rock that will appeal to many Jeep owners.



Order# 709850
\$11.45 ea

2006 Chevy Key Update

A1 Security Manufacturing Corp. is pleased to introduce its new 2006 Original Equipment Transponder Blank No. GMX380C. This newly designed PK3+ blank will be standard for numerous 2006 Chevrolet models.

- Cobalt
- HHR (shown)
- Impala
- Malibu '04-'06
- Monte Carlo

No. GMX380C

ORIGINAL

NEW

A1



Ford - Mercury - Lincoln - Mazda
TRANSPONDER USAGE
Chrysler - Nissan - G.M. - Honda

On-Board
Programmable



QUICK-CODE or
Equivalent Cloneable



MVP/CODE-SEEKER/
T-CODE Compatible

 Gr 82 8 Cut 598333 EZ# H72-PT 4.75 ea Choose Ilo or Strattec	 Gr 82 8 Cut 597602 Ford Logo H72 6.95 ea Choose Ilo or Strattec	 Gr 82 8 Cut 597603 Mercury Logo H72 6.95 ea Choose Ilo or Strattec	 Gr 82 8 Cut 599104 Mazda Logo H72 6.95 ea	 Now '06 Fusion Gr 82 8 Cut 599114 PAT3 3 Ford 11.95 ea	 Now '06 Milan Gr 82 8 Cut 599179 PAT3 3 Mercury 11.95 ea	 Now '06 Zephyr & Mark LT Gr 82 8 Cut 691259 PAT3 3 Lincoln 11.95 ea	 Gr 82 8 Cut 690212 PAT3 3 Mazda 11.95 ea	 Gr 84 Gray 692325 EZ# Y160-PT 6.95 ea Choose Ilo or Strattec	 Now '06 Dodge Charger & Caliber Gr 84 Tan 692352 TAN Late Models 12.95 ea 5/ 10.95 ea
--	---	--	--	--	--	---	---	--	--

Keep
more
cash in
your
pocket



 Gr 84 709850 Y159 Jeep Non-Transponder 11.45 ea	 Some late Nissan Murano, Titan, 350Z, Maxima, Armada NI04T Nissan 11.95 ea 5/ 11.45 ea	 YS15TK1 Dodge Sprinter 11.70 ea	 B97-PT GM Small PK3 8.95 ea 5/8.45 ea	 B97-PT5 GM Small PK3 8.95 ea 5/8.45 ea	 B99-PT GM Large PK3 8.95 ea 5/8.45 ea	 B99-PT5 GM Large PK3 8.95 ea 5/8.45 ea	 HD106-PT Honda 7.50 ea 5/6.95 ea	 HD106-PT5 Honda 7.50 ea 5/6.95 ea
--	---	--	---	--	---	--	--	---

Good selection of cylinders stocked

 Mortise & Rim Cylinders IL-7165SC \$5.20 1" bar stock mortise cylinder in Schlage C kwy. 26D, Dura, 605 IL-7015SC \$5.20 Schlage C rim cylinder 26D, 605	 Thumbturn Cylinders IL-7161TK \$5.75 1" solid bar stock mortise thumbturn cylinder. Choose 26D, Dura Dummy Cylinders IL-7160DC \$3.70 1" solid bar stock dummy mortise cylinder. Choose 26D, Dura
---	--

A1 Security Ignition Picking Tools

No.	Description	Your \$
PS10 shown here		
PS2	10 Cut GM Column Tool	120.00
PS3	10 Cut GM In Dash Tool	110.00
PS4	Ford 8 Cut Tool	100.00
PS5	Chrysler 8 Cut Tool	110.00
PS10	10 Cut GM Column and In-Dash (combo of PS2 & PS3)	185.00

Popular Alarm Lock, Simplex, RCI, Adams Rite & CodeLocks Stocked

 ELECTRONIC CODELOCK No. CL5010 Key Bypass/Passage Mode, Code Passage Mode, One 4-5-6 Digit Master Code, Ninety 4-5-6 User Codes, Single Use Code, Remote Release, Fire Alarm Release, 500,000 Operations on 4 AA 2850mAh Batteries, UNIQUE LOW POWER PIEZO ACTUATOR. Non-handed. 2-3/4" BS Latchbolt Standard. (2-3/8" optional) Finishes: SS Stainless Steel; PB Polished Brass; Black Chrome	<p>\$216</p>
---	--------------



LETTERS

Sargent & Greenleaf Lock Correction:

In the May, 2005 issue of *The National Locksmith*, Dale Libby inadvertently implied in his article about Sentry Gun safes, that some Sargent & Greenleaf mechanical combination locks are manufactured in Argentina. This is incorrect. All Sargent & Greenleaf mechanical combination locks are manufactured in the USA in Nicholasville, KY.

Rench, an Argentina company manufactures a lock that looks similar to the Sargent & Greenleaf 6741, but is not to be confused with such.

We apologize for any confusion, or misunderstanding this article may have caused.

The National Locksmith

It's a No Win Situation

Greg Mango's recent editorial (*Locksmith Fraud & Deception*) concerning fraudulent advertising and deception within the locksmithing industry was interesting and well written. This sort of thing has become so commonplace that we no longer notice it even when it surrounds us.

On the flip side of the very same page upon which your Mango's Message editorial appeared, Marc Goldberg talks about locksmiths feeling pinched by higher gas prices. The claim is made that "you get 21% better mileage at 55 mph than at 65 mph." You do if you're driving an antique or a very large, boxy vehicle, but modern vehicles are streamlined and geared for higher speeds. I Have a computer built into my 1994 Chrysler minivan that gives a

constant read-out of mileage, and I can see with my own eyes that the difference is very small. My brother, a certified auto mechanic, tells me that on cars newer than mine, the difference is negligible.

Even assuming Marc's figures were correct, the conclusion that driving slower eases your pain at the pump is deceptive. Do the math. Using his figures of \$2.38 per gallon and 21% better mileage, what do you get? Assuming your vehicle gets 25 mpg on the highway, we're talking about 2 1/2 gallons per hour and a purported savings of \$1.25 per hour. But most locksmiths charge at least \$35 per hour for their time, and when you drive 55 instead of 65 you're spending 15% more time behind the wheel... a loss of \$ 5.38 per hour. With a net loss of \$4.13 per hour you'll feel pain at more than just the pump.

David Swearingen
Florida

USA Locksmith Fiasco

My name is Wilfredo Velez, and my business name is Willy Velez-Locksmith. I read the editorial about the *Locksmith Fraud & Deception* by Greg Mango, and when I saw the name of one of companies involved in this fraud I was shocked.

The company—USA Locksmith—called me the other day to see if I could do a job for them at a department store here in my home town. The problem was a bad switch for the back door alarm. I agreed to do the job.

I disconnect the switch and went to all the local hardware stores to see if I could find a replacement, because I didn't have an exact replacement with

me. I spent an hour running around and couldn't find one. I called USA Locksmith and explained to them that I would have to order a new switch. They give me the O.K. and issued a purchase order number for \$150.00.

When I return to install the new switch, for some reason there was no power going to the unit. I called USA Locksmith to explain the situation and some lady answered the phone in a real nasty way, telling me that this was a ten-minute job and I wasn't going to get paid. She really went off on me.

In the end I never got paid. I may have lost money and my time, but you know what? In the end they are going to get what they deserved.

Thank you for your time and keep up the good work. Your website I love and the same goes for your magazine. I love you guys.

Take care and god bless honest people and honest locksmiths.

Willy Velez
E-Mail

TRN



E-mail Your Views:
natllock@aol.com

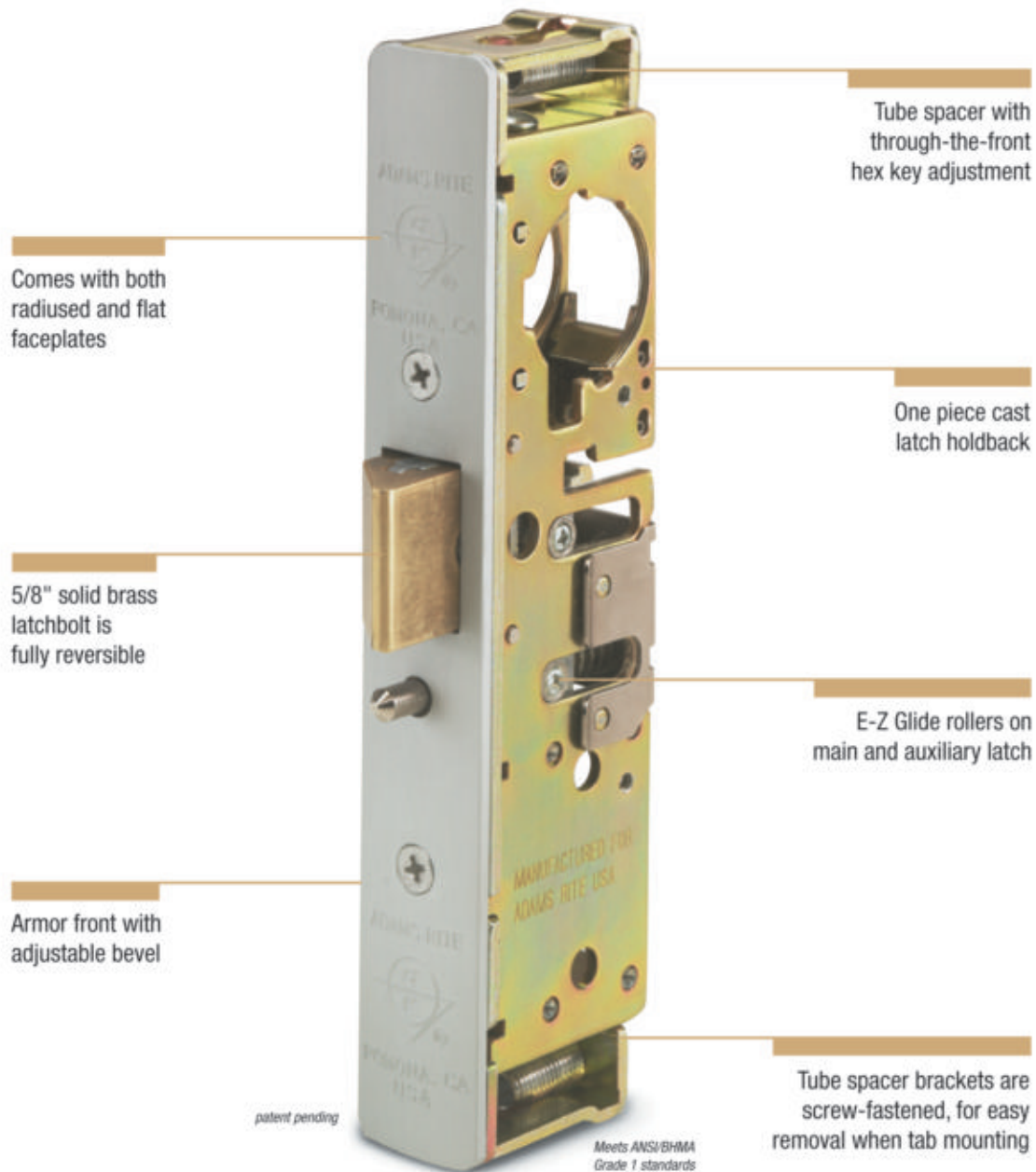
Please include your first and last name.

The National Locksmith

1533 Burgundy Parkway
Streamwood, IL 60107
Attn: Editor

The National Locksmith is interested in your views. We do reserve the right to edit for clarity and length.

AMBIDEXTROUS



Non-Handed Reversible Bolt Deadlatch

The new 4900 Series Deadlatch from Adams Rite works for either right or left handing. Its innovative engineering enables installers to reverse the latchbolt or adjust the bevel of the faceplate with nothing but a screwdriver. Features like through-the-front spacer adjustment and an adjustable bevel give you even more flexibility. The 4900 Series is available in 1-1/8" and 1-1/2" backsets; is compatible with all Adams Rite paddles, handles, latch pulls and entry trim; and just as you'd expect is the same dependable quality as all of our hardware.

One deadlatch really does it all. Why, it's so easy to adjust, you can do it with either hand. And when's the last time you got to practice being ambidextrous?

For more information, log on to our Web site or call 800-872-3267.



DAP-Key™



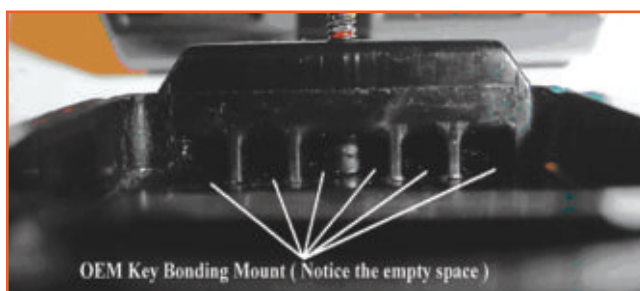
Keystone Access

Many Lexus and Toyota Land Cruiser owners are faced with a dilemma, the three button security remote and mechanical key unit breaks where the key blade and remote is joined. The auto dealer replacement cost is from two-hundred fifty to six hundred dollars each!

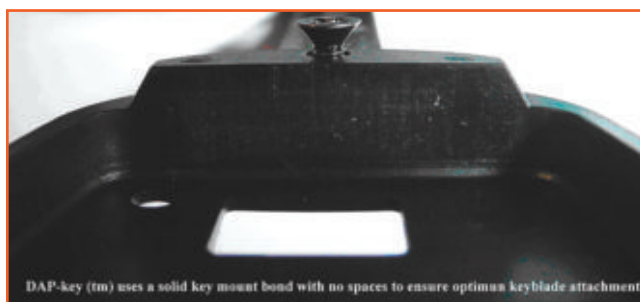
The break occurs due in part to a weak structural design of the plastic housing that holds the remote and key blade. In addition the original equipment fastener required to assemble the remote and key blade is also thin adding to the inherent weakness, (see photo 1).

DAP-Key™ has a greatly improved reinforced design, made of material that is extremely pliable and durable ABS plastic. The fastener is a thicker black oxide stainless steel fastener and the bonding

Application Chart			
Model	Year	MFG	DAP Part #
ES300	1998-2001	Lexus	DAP-L10
ES300	2002-2003	Lexus	DAP-S10
ES330	2004-2005	Lexus	DAP-S10
GS330	1998-2004	Lexus	DAP-S10
GS400	1998-2000	Lexus	DAP-S10
GS430	2001-2005	Lexus	DAP-S10
GX470	2003-2005	Lexus	DAP-M10
IS300	2001-2004	Lexus	DAP-S10
Landcruiser	1998-2002	Toyota	DAP-LC10
Landcruiser	2003-2005	Toyota	DAP-LC10
LS400	1998-2000	Lexus	DAP-S10
LS430	2001-2005	Lexus	DAP-S10
LX470	1999-2000	Lexus	DAP-L10
LX470	2003-2005	Lexus	DAP-M10
LX470	2001-2002	Lexus	DAP-S10
RX300	1999-2003	Lexus	DAP-S10
RX330	2004-2005	Lexus	DAP-M10
SC300	1998-2000	Lexus	DAP-L10
SC400	1998-2000	Lexus	DAP-L10
SC430	2002-2005	Lexus	DAP-L10



1. The break occurs due in part to a weak structural design of the plastic housing.

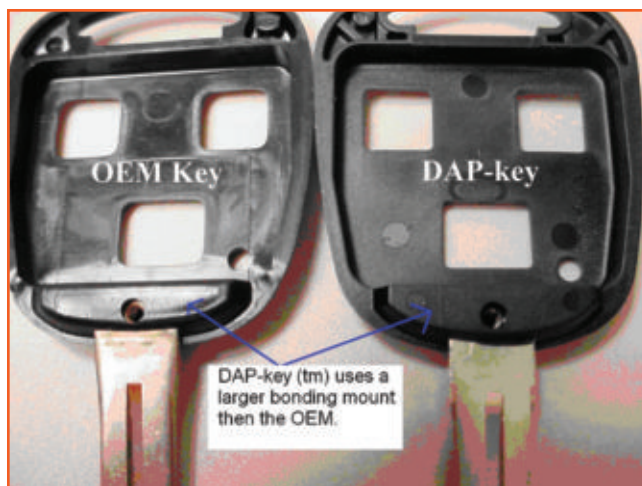


2. DAP-Key™ has a greatly improved reinforced design.

of the conical shape of the fastener to the housing is an improvement that increases overall strength, (see photo 2).

The housing is made of two parts that are home to the “sealed can” factory remote unit and the key blade, (see photo 3). The top is a cover, and the bottom of the housing is where the improvements are located. The original has a weaker bonding mount, and the DAP-Key™ is thicker and solid in design. The result is the key blade is greatly supported by the improved design to resist breaking through normal use.

The three-button housing of the DAP-Key™ is precision molded and fits the original manufacturers



3. The housing is made of two parts.



4. Fits the original manufacturers three button remote snugly.

three button remote snugly to eliminate gathering of dirt and lint which can inhibit reliable performance, (see photo 4).

In the world of imports we have accepted as global consumers, it is still noteworthy that DAP-Key™ is made in the USA.

DAP-Keys™ are available in three sizes for Lexus, Small-Medium-Long and one size for Toyota Land Cruiser, (see application chart).

Keystone Access is not only a manufacturer of “widgets” but also a company genuinely trying to help locksmiths remain profitable in the automotive segment.

To assist locksmiths provide DAP-Key™ to consumers, Keystone Access offers a FREE Locator listing at www.autoremotest.com to assist consumers find the closest locksmith. Locksmiths qualify by purchasing ten DAP-Keys™ from their wholesale distributor of choice.

DAP-Key™ is a product without moving parts that is truly better than the original.

For more information contact Keystone Access at: 328 Bush Ave., Lancaster, PA 17601; Phone: 800-860-KEYS. Circle 253 on Rapid Reply.

TNL



SAFE CORPORATION

LARGEST DEPOSITORIES IN THE INDUSTRY



WS-10



WS-40

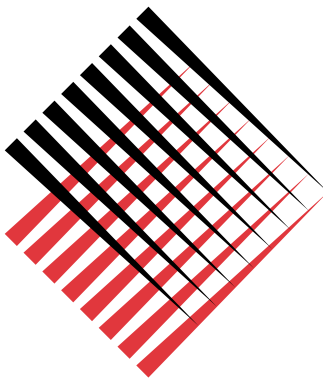


AB-5

800-253-1267

114 S. Delsea Drive, Suite 3
Glassboro, NJ 08066

856-863-1186
Fax 856-863-1208



STRATTEC

Transponder Guide

The following transponder information sampling was taken from the STRATTEC 2005 Transponder Guide that was first introduced at the 2004 ALOA show. STRATTEC recently updated the 2005 transponder guide to include 2006 model year vehicles. The guide includes on-board programming instructions, a complete list of transponder key applications and key blank graphics.

Simple mechanical auto locks are rapidly losing ground to the next generation of lock technology — transponder keys. In this innovative system, an electronic chip (the transponder) imbedded in the key transmits and verifies a code with the car's on-board computer systems, allowing the car to start. If someone attempts to start the vehicle without the correct programmed key the car will not start.

HOW A TRANSPONDER KEY WORKS. AND WHY IT CAN WORK WONDERS FOR YOUR BUSINESS.

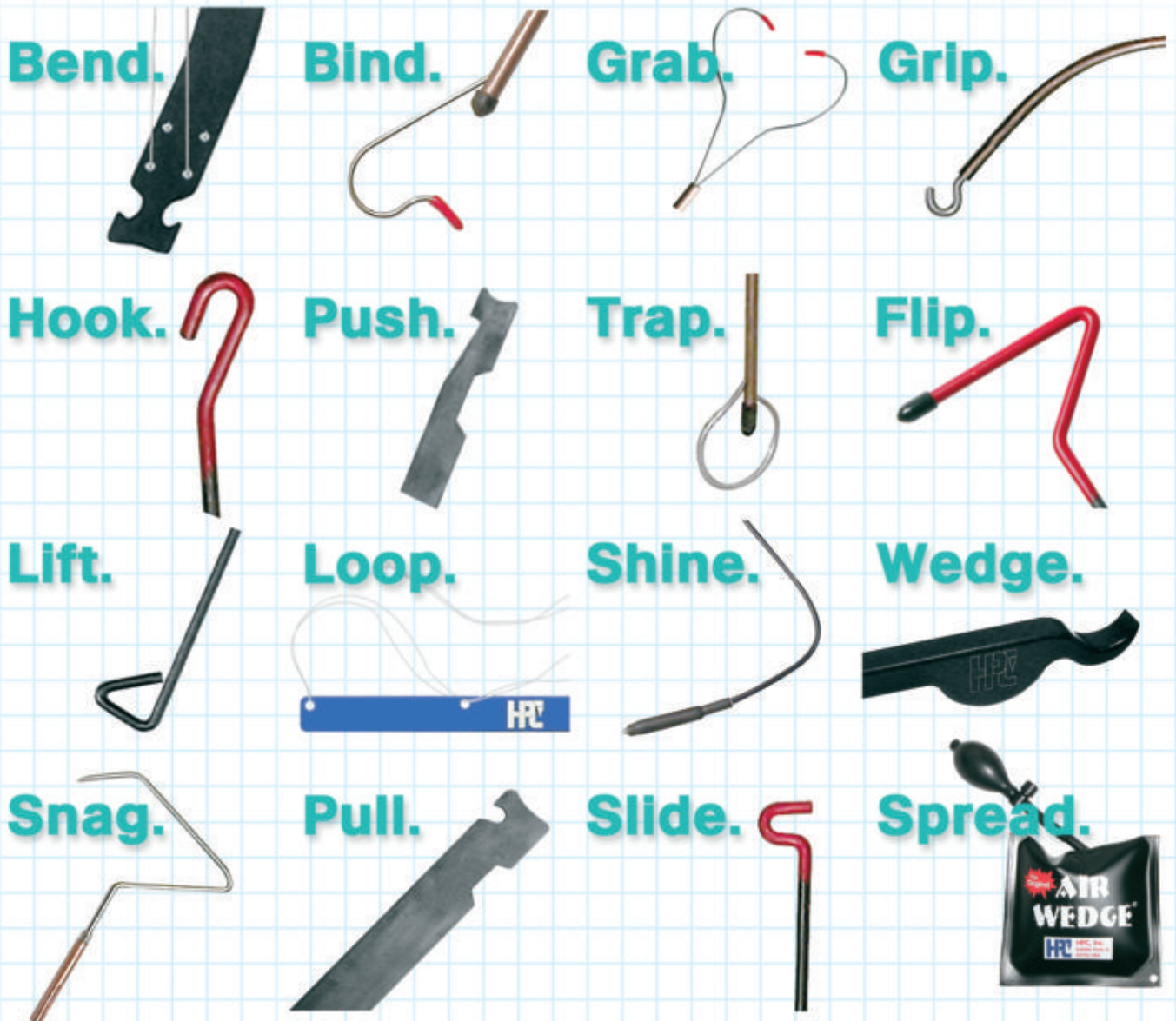
Transponder technology represents a major advance in theft protection — and a profitable opportunity for you. Since its introduction in 1996, transponder key use has grown to over 70 million cars in North America today. And with replacement costs currently averaging \$50 to \$300 per key, your reward in servicing the technology will match the vehicle owner's satisfaction of being protected by it.



MODEL YEAR I.D. BY VIN

Typical VIN*	1	4	2	W	6	1	5	8	X	Y	5	0	6	9	7	3	4
VIN Character	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
MODEL YEAR	<div> <div>V = 1997</div> <div>W = 1998</div> <div>X = 1999</div> <div>Y = 2000</div> <div>1 = 2001</div> <div>2 = 2002</div> <div>3 = 2003</div> <div>4 = 2004</div> <div>5 = 2005</div> <div>6 = 2006</div> </div>																

CAN YOUR TOOLS DO THIS?



HPC provides a vast variety of creative car opening tools that do all this and then some! So when you want to wiggle and worm your way into more vehicles, choose HPC!

Pictured from left to right starting at the top:

Flexi-Jim™ CO-84, Thru Car Clutch™ CO-81, Twin Hooks CO-85, Horizontal Clutch™ CO-75, Over Hook™ CO-68, Big Jim™ CO-24, 5-Foot Super Snare CO-78, Switch Stick CO-80, Super Killer™ CO-70, Lasso™ CO-73, Flex-A-Light™ FAL-10, Lever Wedge LW-100, Fishing Pole CO-83, Super Jim™ CO-11, Short Double "L" CO-72, Air Wedge® AW-99.



HPC, Inc.
3999 N. 25th Avenue
Schiller Park, IL 60176 USA
Tel: 847.671.6280
Fax: 847.671.6343
www.hpcworld.com



WE'VE BUILT EVERYTHING INTO OUR TOOLS. INCLUDING OUR REPUTATION.



CODE-SEEKER™

Part #708884

INTRODUCING CODE-SEEKER FROM STRATTEC. It's not just a new automotive programming tool — it's a money-making machine.

On the job, CODE-SEEKER is easy to use and adapt: it adds, erases and programs keys; it's fully upgradeable to accommodate future vehicles and features an ergonomic slim line design.

And with CODE-SEEKER's low price, you'll put more money in your pocket — not into expensive tools and unpredictable upgrade fees.

OUTSTANDING PERFORMANCE!

STRATTEC, the world leader in automotive lock technology, offers accurate and reliable 24-7 customer service with its toll-free tech line and support. Leasing options available call CODE-SEEKER sales at 877-251-8798 to order your money-making machine today.



Visit <http://aftermarket.strattec.com> for more information.

Utilizing cutting edge technology, our QUICK-CODE cloning tool has the ability to duplicate and display the transponder's permanent code as well as identify transponder presence. It is fitted with the most innovative electronic components and the software is easily updated. Included is our revolutionary service and the security of knowing we back our cloning tools with **FREE UPGRADES FOR LIFE.**

The QUICK-CODE is easy to use with on-screen instructions that are clear and easy to follow. Its side-fitted antenna allows keys to be read without removing from the key ring. Extremely versatile, it comes with USB and RS232 interface for linking to a computer. This allows for simple high-speed data transfer.



QUICK-CODE™

Part #708883

Visit <http://aftermarket.strattec.com> for more information.

AMAZING HOW THE RIGHT COMBINATION CAN HELP YOU TURN A PROFIT



For safe, quick entry the Powerbolt® 1000 Touchpad Keyless Entry system is the ideal electronic home access system. No fumbling for keys or accidental lockouts. Put state-of-the-art technology on every exterior door!

UPGRADE OPTION Offer keyless entry as a homeowner upgrade. Powerbolt easily replaces existing door hardware and fits standard 2 1/8" door prep. No wiring is necessary; Powerbolt works on 4 AA alkaline batteries.

PERSONALIZED PROGRAMMING Homeowners may choose any 4 to 8 digit personal security code and change it easily and as often as necessary. Two-code capability allows for a neighbor or cleaning crew to have temporary access.

KEYLESS ENTRY prevents lockouts and is so easy to use. Press a single touchpad button to lock. To unlock, enter a personalized security code. Includes two conventional keys for back-up use. Indicator light warns of low battery.

Powerbolt features a full 1" projection deadbolt and is available in three finishes—Lifetime Polished Brass, Satin Nickel and Venetian Bronze. Kwikset offers a variety of levers and knobs that complement the Powerbolt.

Kwikset
THE BEAUTY OF STRENGTH™

To unlock *your* opportunity, contact Kwikset at 800-327-LOCK or visit us at www.kwikset.com.

COPYRIGHT © 2005 KWIKSET CORP. LAKE FOREST, CA 92630

Circle 228 on Rapid Reply


**ON-BOARD
PROGRAM**
1
GENERAL MOTORS "PK3"

ORIGINATE NEW MASTER KEY:

1. Put the new key into the ignition cylinder and turn to the ON position. The dashboard security light will turn on and remain on for ten minutes.
2. Once the dashboard security light turns off, you have 60 seconds to start Step 2. Turn the ignition cylinder to OFF, then turn it back to the ON position. The dashboard security light will turn on and stay on for an additional ten minutes.
3. Repeat of Step 2.
4. Once the dashboard security light has turned off for the third time, the key will be able to function in the car. It has been programmed into the car's computer and has replaced ALL previous electronic key codes — the computer will not recognize any other key.

ADD DUPLICATE KEY:

1. Put the current key into the ignition.
2. Turn the ignition ON and back to OFF.
3. Remove the current key and insert the new key, turning it ON. You **MUST** do this within 15 seconds.
4. The security light will switch on for two seconds, confirming that the key has been successfully programmed into the vehicle.

**ON-BOARD
PROGRAM**
2
**1997 FORD, LINCOLN, MERCURY
1998 FORD, MERCURY**

ORIGINATE NEW MASTER KEY:

1. Put the new key into the ignition. Turn it to the ON position. The dashboard security light will flash for 15 minutes.
2. Once the dashboard security light stops flashing, you have five minutes to begin Step 2. Turn the ignition OFF and then back to the ON position. The dashboard security light will flash for 15 additional minutes.
3. Repeat of Step 2.
4. Once the dashboard security light has turned off for the third time, the key will be able to function in the car. It has been programmed into the car's computer and has replaced ALL previous electronic key codes — the computer will not recognize any other key.

ADD DUPLICATE KEY:

1. Put the current key into the ignition.
2. Turn the ignition ON and back to OFF.
3. Remove the current key and insert the new key, turning it ON. You **MUST** do this within 15 seconds.
4. The security light will switch on for two seconds, confirming that the key has been successfully programmed into the vehicle.

PRO-LOK

"Helping Hand Tools"

When You Use Our Tools it's Like Having an Extra Strong Helping Hand Working for You!

**8pc Driver Set
#LT470**



- Curved Hook
- 1/8" Flat Screwdriver
- Offset 45° Hk
- #0 Phillips Screwdriver
- 90° Hook
- SD-15 Star Screwdriver
- Straight Pick
- SD-20 Star Screwdriver

Heat treated, chrome plated, chrome vanadium steel shafts with magnetic tips. High visibility handle, easy to locate. Net weight 3/4 lbs. (.34kg)

NEW!

**Follower Set-4pc
#LT371**



4 different colored aluminum follower tools to easily identify diameter. Two standard size followers, one small and one large diameter combine to offer a set that will service almost any pin tumbler lock. Also available individually.

**KeyCheck™
#LT300**

Ideal tool to train on key blank identification. Forms & holds the keyway on any sample key and allows you to match the right blank every time.



**Pump Wedge
#AO65**



Window wedge for auto opening. The pump wedge is an inflatable wedge made of non-marring vinyl material. Rounder corners for easy entry.

**HeadSpec's
#LT1240**



Impressioning Magnified. If you can't see it... You can't impression it! Multi-Purpose Head-Wearing Magnification Glasses with Dual Light Sources! 4 different magnifying choices and 2 lights built all in one HEADSPEC. Magnifications available: 1.8x, 2.3x, 3.7x & 4.8x. Uses 2 AAA batteries (not included) per light.

**Service Call Dispatch Book
#LT430**



Make it easy to track service calls for dispatch and billing. 3-copy NCR with wrap-around cover. Give one copy to dispatcher, one to service tech, and retain permanent copy in book. 200 tickets per book individually numbered.

#KHBLK-Black Key Hooks

#KHBL-Blue Key Hooks

#KHBR-Brown Key Hooks

#KHTE-Teal Key Hooks

#KHRE-Red Key Hooks

#KHWH-White Key Hooks



100 hooks per bag. Fits 1/8" pegboard. Available in 6 different colors.

**Lock & Safe Scope
#LT1202**



This scope throws a strong beam of light, great for reading wafers and safe work. Made of impact-resistant plastic. Comes with 3 tips, carrying case, batteries, and bulb. Put one in each truck.

**Window Wiper
#AO66**

Ever try to look into the door cavity and all you see is the reflection off of the dust? This new tool will solve this problem. Insert the tool under the window glass and wipe the glass clean on both sides at the same time. Cloth cover is removable, washable and replaceable. Part # for replacement cover ZA066SL.

**Domestic Key Tag System
#LT420**

BEST	
RLC	A1114B
DOM	A114B
TRV	
SL	8632
JET	863-B
ONE	1A101

**Auto Key Tag System
#LT421**

VOLVO	
RLC	X30
SL	V0730
SL	8630
COR	VL4
JET	VL4
ONE	

**White Blank Key Tags
#LT422**

RLC	
DOM	
TRV	
SL	
JET	
ONE	

**Fluorescent Blank Key Tags
#LT423**



Highlight those frequently used or specialty keys. 3 fluorescent colors. Set contains 96 blank tags.

ON-BOARD
PROGRAM

9

2002+ TOTOTA, LEXUS

THE TOYOTA ELECTRONIC CONTROL MODULE

does not have programming modes without a pre-programmed key. If there is no key available that is already programmed into the module, the module must be replaced.

TO DELETE ALL BUT ONE KEY FROM THE UNIT

1. Simultaneously depress and release brake and accelerator pedals 1 time.
2. Insert an existing master key into the ignition cylinder. Do not turn the key from the OFF (LOCK) position.
3. Within fifteen seconds of inserting the key, depress and release the accelerator pedal six times.
4. Within twenty seconds of completing the above step, depress and release the brake seven times.
5. The security light will flash, indicating all keys other than the one being

used have been deleted.

6. Remove the key from the ignition cylinder within ten seconds. It will be the only key still programmed to work.

ADD DUPLICATE KEY:

Requires one working Toyota/Lexus Master key.

1. Make sure all doors and windows are closed
2. Insert Master key into the ignition cylinder.
3. Cycle the ignition cylinder from ON to OFF five times.
4. Open and close the driver side door six times.
5. Remove the Master key and insert the new duplicates key.
6. TURN THE IGNITION CYLINDER ON.
7. The new key will be registered after 60 seconds. The THEFT light on the dashboard will go out, indicating that the programming has been completed.

OBP: ON-BOARD PROGRAMMING

MAKE	MODEL	YEAR(S)	SSC P/N	OBP#	QUICK-CODE	CODE-SEEKER	DE TOOL	EZ#
Acura	CL & TL	1999-04	692246			CODE-SEEKER	PGW	H0106-PT
Acura	CL & TL	1999-04	692057		QUICK-CODE			H0106-PTS
Acura	Integra	2000-01	692246			CODE-SEEKER	PGW	H0106-PT
Acura	Integra	2000-01	692057		QUICK-CODE			H0106-PTS
Acura	MDX	2001-06	692246			CODE-SEEKER	PGW	H0106-PT
Acura	MDX	2001-06	692057		QUICK-CODE			H0106-PTS
Acura	NSX	1997-04	692246			CODE-SEEKER	PGW	H0106-PT
Acura	NSX	1997-04	692057		QUICK-CODE			H0106-PTS
Acura	RL	1997-04	692246			CODE-SEEKER	PGW	H0106-PT
Acura	RL	1997-04	692057		QUICK-CODE			H0106-PTS
Acura	RSX	2002-04	692246			CODE-SEEKER	PGW	H0106-PT
Acura	RSX	2002-04	692057		QUICK-CODE			H0106-PTS
Acura	TL	2006	692057					
Acura	TSX	2004				CODE-SEEKER		
Audi	A4	2000-04				CODE-SEEKER		
Audi	A6	2000-04				CODE-SEEKER		
Audi	A8	2000-04				CODE-SEEKER		
Audi	Allroad Quattro	2001-04				CODE-SEEKER		
Audi	S4	2000-03				CODE-SEEKER		
Audi	TT	2001-04				CODE-SEEKER		
Buick	Allure (Canada)	2005	691205	OBP-1				
Buick	Allure (Canada)	2005	692138					
Buick	LaCrosse	2005-06	691205	OBP-1				
Buick	LaCrosse	2005-06	692138		QUICK-CODE			
Buick	LeSabre	2000-04	690398	OBP-1			Tech II	899-PT
Buick	LeSabre	2000-04	692065		QUICK-CODE			899-PTS
Buick	Park Avenue	1997-04	690552	OBP-1			Tech II	897-PT
Buick	Park Avenue	1997-04	692064		QUICK-CODE			897-PTS
Buick	Rendezvous	2002-05	690398	OBP-1			Tech II	899-PT
Buick	Rendezvous	2002-05	692065		QUICK-CODE			899-PTS
Buick	Rendezvous	2006	690552					
Buick	Terraza	2006	690552					
Cadillac	CTS	2003-04	692139	OBP-7			Tech II	
Cadillac	CTS	2006	692139					
Cadillac	Catera	2000-01				CODE-SEEKER	Tech II	
Cadillac	Catera	1997-99						

APPLICATION CHART

For more information contact:

STRATTEC Security Corporation • Phone: 414-247-3331 • Fax: 414-247-3690 • Web: www.strattec.com
 Circle 253 on Rapid Reply.

InstaCode 2005

W.H. Software

Locksmith Management Software

InstaCode Software has changed to fit new market demands. The software is now offered as a base package, with available add-ons. The base package contains all the codes, card printing, electronic key machines, find partial bittings, cutting trees, graphical layouts, etc.



Base Price \$695

Add-Ons Include...

Car Opening & Transponder Information/Programming

\$200 for 1 Module
\$300 for Both

MasterKeying

Triax Communication Module
\$395

Additional Users Above Three
\$185 each

DEMO DISC!
Run InstaCode
for 10 days.
Only 10 bucks!

Includes
all modules.

System Requirements:

InstaCode is supplied on CD ROM and comes complete with an easy to follow step-by-step instruction manual. *InstaCode* requires 64MB of free RAM and 100MB of available Hard Disk Drive space, mouse or other pointing device and one of Windows NT, 2000, XP or 2003. Floppy disk images are included on the CD ROM so you may make your own set of floppy disks if required.

Pocket InstaCode requires a Pocket PC (not included) with 64mb RAM running Microsoft Pocket PC2000 or later. Contains all the codes but not all the features of *InstaCode*. Call for details.

Subscribe to InstaCode, as low as \$25.00 a month!

Order or subscribe at www.TheNationalLocksmith.com
or

Call us at 630-837-2044 to order!

2004

by Michael Hyde & Brook Francisco

Ford

F-150

The 2004 Ford F series pickups is one of the first Ford vehicles using the Ford Controller Area Network (CAN).

What is a Controller Area Network (CAN)? The CAN network is a generic term for the serial bus system that transfers data between different electronic modules on the vehicle. This is known as multiplexing. The CAN allows for one pair of wires to take the place of a large wiring harness, combining multiple signals on this single wire through time division multiplexing. This reduces material and installation cost, and increases reliability and ease of service.

Is Ford the only manufacturer going to this CAN system? No, Honda and Chrysler have already begun use of CAN systems on the 2003 Accord and 2004 Pacifica, respectively.

Which Ford models are on this CAN system? This system was introduced on the 2003 Ford Focus with the 2.3L engine and will be found on many 2004 models including the Explorer, Taurus and Sable. It is sure to appear on more future models.

Will the locksmith still be able to generate transponder keys for these Ford CAN vehicles? Yes, but it will require a software and/or hardware upgrade, depending on which key programmer you are using. For NGS users this will mean the purchase of the Vehicle Communication Module (VCM) and additional software. This module should be available soon through Hickok for about \$2500.00. For T-Code owners the Ford CAN update is available at a reasonable price of less than \$650. Contact your local ASP distributor if you need this update.

Opening the 2004 F-150



1. Like it's predecessors the 2004 F-150 uses an unshielded vertical lock linkage. This makes opening the vehicle very easy. On the passenger side door I used a standard Slim-Jim inserted about 4-6 inches down the door, just to the right of the door frame.



The Slim-Jim grabbed the vertical linkage easily and I was in. The Slim-Jim seems to have a bad reputation as a hack-tool in some circles, but I use it often to get into many newer cars and have never had a problem.

Tailgate Lock Removal



2. The easiest lock to remove is the tailgate lock. This lock is not standard on all models, but it does contain the first six wafers, so you can generate a complete key with this lock and only a small progression. Part number is Strattec #703362.



3. Begin by removing the 8 torx bolts that hold on the bed-liner and upper tailgate panel.



4. After the bed-liner is removed, the upper tailgate panel can be removed.

Continued on page 24

Combination Locks *for Cabinet Doors*



D900 and D901 Features

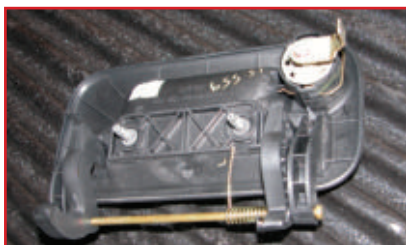
- *Wood or Metal Applications!*
- *Easily Resettable Combinations!*
- *Easy to Read Numbered Buttons!*
- *Easy to Use Molded Thumb Turn!*
- *Numerous Combinations Available!*
- *Easily Retrofits Existing Locks!*
- *User Friendly Installation Instructions!*
- *Mechanical: No Batteries Needed!*
- *Easily Adapted to Doors or Drawers!*
- *Brushed Chrome and Brass Faceplates!*
- *Latex Free for Hospital Use!*
- *Stock Items Available!*

CCL
Security Products™

301 West Hintz Road
Wheeling, IL 60090
Telephone: 800.733.8588
Fax: 847.537.1881
www.cclsecurity.com



5. You now have access to the tailgate lock assembly and linkages. The lock-assembly is held in place by two 10mm bolts.



6. After removing the two 10mm bolts the entire lock assembly can be removed. The lock is held in place by a U-shaped clip.

7. This lock contains the first six tumbler positions.



Door Lock Removal



8. The handle on this truck seems to be of a new design. The part number for the cylinder is Strattec #703362, same as the tailgate lock.



9. You must remove the panel to remove the door lock cylinder.



10. Begin by removing the two screws at the very bottom of the panel.



11. Next remove the trim piece behind the inside door handle and the two screws securing the door panel.



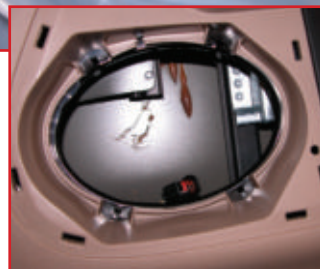
12. Now lift up on the door switch assembly to gain access to another panel screw.



13. Next, gently pry outward on the large trim cover that goes over the door speaker.



14. The four screws that hold the speaker to the door will need to be removed. You can now remove the speaker.



15. At this point, the four plastic grommets that the speaker screwed into will have to be removed. This allows for easier reattachment of the door panel when the time comes.



16. Using an upward lifting motion, the panel can be removed.



17. An easier approach is to loosen the entire handle assembly. There are four bolts; two are found on the edge of the door above the latch. Two are accessed from inside the door panel.



18. After removing all four bolts and disconnecting the lock linkage, the handle assembly can be moved outward and the "U" clip that secures the lock can be removed.



21. Start by removing the two Phillips screws that hold the shroud together.



19. The door lock has tumbler positions 1-6.

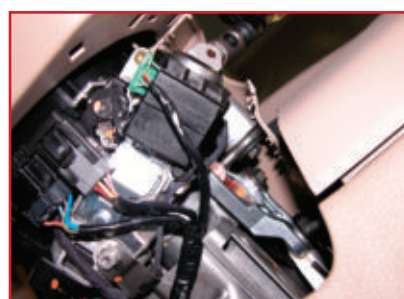


22. You can then separate and remove the two shroud halves, revealing the PATS transceiver ring.

Ignition Lock Removal



20. The ignition lock on the 2004 F-150 is the second generation Strattec without sidebar #707592. This ignition uses an active retainer, so removal is not difficult if you have a working key.



23. Next, remove the 7/32" screw that holds the transceiver ring to the ignition housing and slip the antenna ring over the front of the lock.

REST ASSURED

UL LISTED • LIFETIME WARRANTY • COMPETITIVE PRICES
OVER 20 MODELS CERTIFIED FIRE PROTECTION

GUNS
HEIRLOOMS
CAMERAS
PHOTOS
INVENTORY
LEGAL PAPERS
RECORDS
JEWELRY



FORT KNOX
SECURITY PRODUCTS

COINS
CARDS
COLLECTIONS
SENTIMENTALS
INVESTMENTS
SAFE FROM
FIRE
AND THEFT

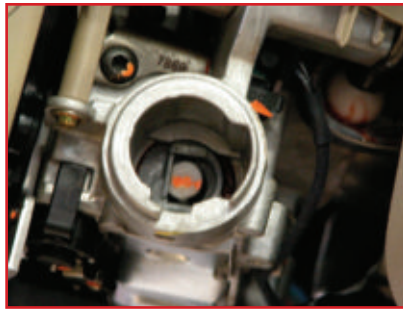
THE MOST TRUSTED NAME IN SECURITY!

CALL US TODAY FOR YOUR FREE BROCHURE
1 800 821- 5216 • North Industrial Park Road • Orem, Utah 84057

www.ftknox.com



24. You now have access to the active retainer. With the key somewhere between "Accessory" and "On" you can depress the retainer with a small poker and remove the cylinder.



25. Note the anti-theft device in the housing. If the cylinder is pulled out forcefully, the safety device at the rear of the housing will engage, preventing the vehicle from being started. (As if the transponder system was not enough!)

The ignition lock is disassembled easily. Begin by removing the large C-Clip on the back of the lock.

You will then need to use a working key cut off at the shoulder to insert into the lock and remove the plug out of the rear of the cylinder.

Wafer positions 1 and 3-8 are found in this ignition lock. Since this is the non-sidebar lock it uses Ford 8-Cut door wafers.

Programming the Ford CAN with the T-Code



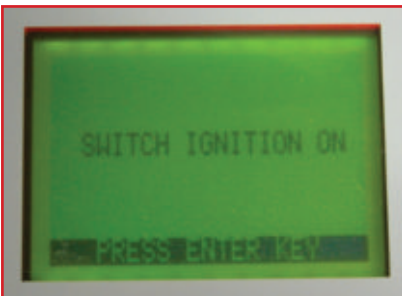
26. The OBD-2 connector is located above the brake pedal.



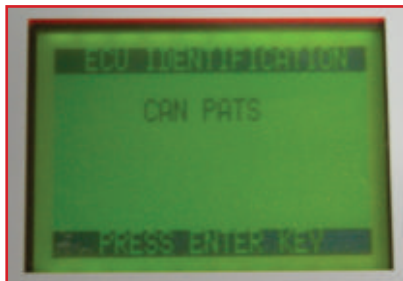
27. After connecting the T-Code and entering my password, select Ford from the list of vehicles. The correct keyblank is Strattec 599114.



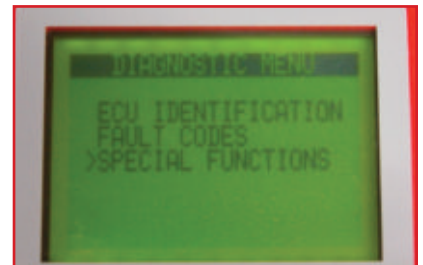
28. The correct protocol for this vehicle is PATS III CAN.



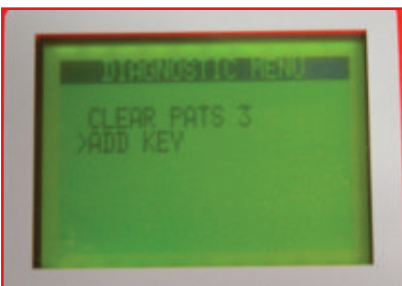
29. Then switch the ignition on.



30. The T-Code has identified the system as CAN PATS and the key programming will begin.



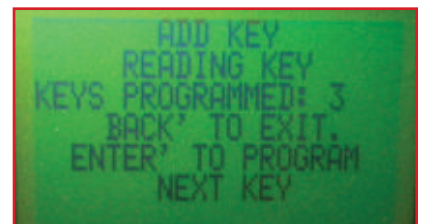
31. Select "Special Functions".



32. We now have the option to clear all keys or add one key.



33. Push Enter and the familiar 10-minute timer begins.



34. After the timer reaches 10:00, the T-code informs us that access has been granted and the key is programmed successfully.



Don't get torqued off by other brands...

Be confident with the quality of Ilco.
We make the world's largest selection
of key blanks — brass, nickel plate or nickel silver.
You'll always find just what you're
looking for with Ilco.

The  to your success



A member of the Kaba Group
www.kaba-ilco.com

Circle 225 on Rapid Reply

An Aluminum Stile Door **In a Box!**



by
Jake Jakubowski

Part 2

In the first installment of this article I covered the assembly of the door. This time I will cover the assembly of the frame and installation of the unit in an opening.

The Frame

The frame comes in a separate box and can if necessary or required, be purchased independently of the door. The frame assembles as easily as the door. As you will see in the following photographs, it's about as easy as 1-2-3, to assemble the frame and have it ready for installation.

Dave is removing the frame from the box in *photograph 1*.

In *photograph 2*, the header is attached to the mullions and in *photograph 3*; the threshold is attached to the bottom portion of the mullions. Note that the pivots and all related hardware are attached to the various components.

Like I said. "One, two, three!"

The Installation

Once out of the box and assembled, this door and frame can be installed in any opening. It can be installed in an aluminum



Photograph 1.

storefront, in a concrete block wall, a wooden wall, or in a steel building. Anywhere that there is a rough opening of 40" x 86". That opening is for a typical 32" door. A larger opening, of course, would be required for a 42" door (approximately 50" x 86").

I photographed the following installation in a warehouse, where several offices had been custom-built, using typical storefront technology (*photograph 4*). These partitions were designed to require narrow stile aluminum doors. Two different style doors were used at this location. One had a standard pivot configuration and one had a butt hinge configuration.



Photograph 2.

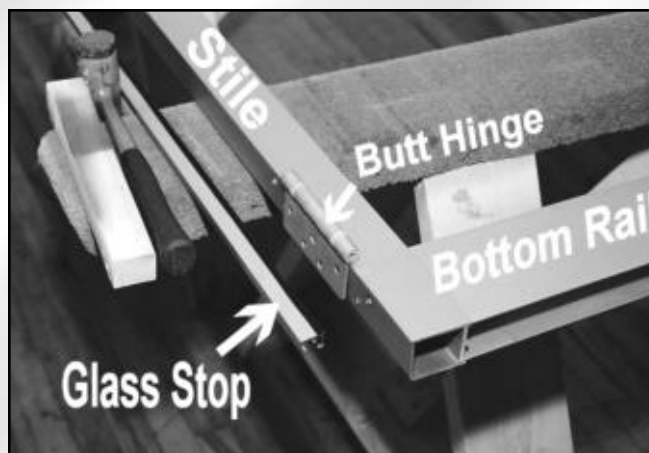


Photograph 3.

The folks at Keystone Door and Locksmiths did that as a favor to me and you, so I could show you the adaptability of this door as well as its ease of installation.



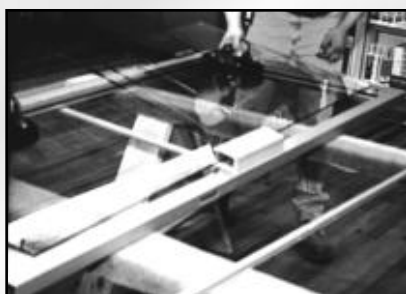
Photograph 4.



Photograph 5.

You will also note that these doors are in a clear aluminum finish, rather than a duronodic finish, like the ones shown above. The earlier photographs were shot to show the assembly of the door (At Keystone's plant), while this installation was taken of a job already in progress.

Regardless, the installation accomplishes two things. One: It illustrates how quickly one of these doors can be installed.



Photograph 6.


Two: It illustrates the basic principles involved in the door and doorframe. As far as I'm

concerned, when it comes to doors, it doesn't get any easier than this.

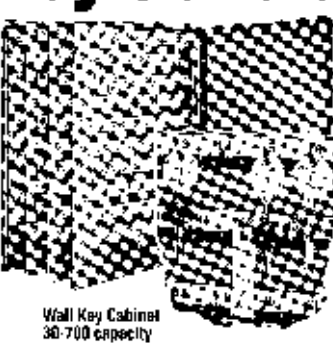
Photograph 5, shows the components of this door, prior to it getting the glass, or light, installed. Note that the basic components are the same.

Here the glass is being installed in the door, (*photograph 6*). Notice that the pull on this door is the old style and not the newer "U" shaped pull.


Visible Key Control



Floor Key Cabinet
760-2280 capacity



Wall Key Cabinet
30-700 capacity



Drawer Key Cabinet
1000-3312 capacity







Table Cabinet
700-1200 cap.




Badge Cabinet To
188 badges




Portable Case
56 capacity



Mini-Wall
10-20 capacity



Key Tray
56 cap.




Big Head Keys
40-350 cap.

Low-Cost, Simplified

- Visual inventory of keys and tags.
- Plastic color tags available for color coding areas.
- Illustrated instructions for easy installation.
- Single or dual tag systems.
- Improves security, reduces key loss
- Choose from 75 standard cabinets

www.lundkeycab.net



EQUIPMENT CO., INC. Dept. ML
P.O. Box 213, Bath, Ohio 44210
Cleveland Tel. 330/659-4800
FAX 330/659-9347

Key systems for over 60 years

Who said couldn't have

Style!



There's an award-winning design waiting for you. Find out more at www.BiLock.com.

Patented and Tested to UL437

Toll Free 888-564-4656

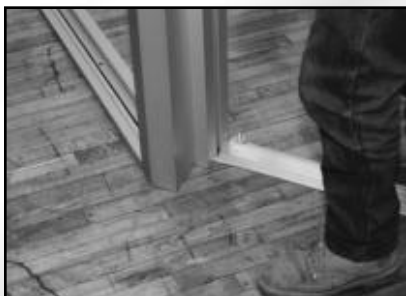
Manufactured in the U.S. by Login Lock



Photograph 7.



Photograph 9.



Photograph 8.

In *photograph 7*, the frame is placed against the mullion of the partition, in preparation for the installation of the door.

As you can see in *photograph 8*, the alignment of the frame and mullion are carefully checked prior to securing with screws. Note the pivot on the threshold, near the bottom of the frame.

Photograph 9, shows the "shoe" of the frame as it is placed against the mullion in the raw opening of the office partition.

The "case" is snapped over the shoe, (*photograph 10*).

The alignment (*photograph 11*) is checked and checked again, to ensure that everything is where it is supposed to be.

In *photograph 12*, a large pair of Vise-Grips® are used to stabilize the frame against the shoe and mullion while screws are driven through the frame (in the channel where the door stop will snap) and into the mullion behind the frame.

On the opposite side of the door (*photograph 13*), the frame is being secured to the mullion in the same manner as on the other side. To secure the frame to the mullion, a large screw is driven into the door stop channel, until it seats.

Photograph 14, shows the door stop being snapped into place in the



Photograph 10.



Photograph 11.



Photograph 12.

door stop channel. *Photograph 15*, shows the door stop on the pivot side of the door being installed. Note: that this is an in-swing door.

Photograph 16, shows one of the screws that were driven into the door stop channel to secure the door frame to the mullion. In *photograph 17*, the threshold is being secured to the floor. Remember that the threshold is attached very securely to the frame by screws. This secondary securing of the threshold keeps the threshold from clanking against the floor as the door is opened and closed; as well as helping to give the entire unit more stability.



Photograph 13.



Photograph 14.



Photograph 15.



Photograph 16.

BUSCH

DiscountKeyMachines.com

800-332-8724/407-352-1532

"The Key Machine Superstore"

Always The Best Prices On



The Universal II Code Machine



Photograph 17.

Photograph 18, shows the door being positioned over the pivot on the threshold and *photograph 19* shows the top (or door portion of the pivot) being placed into the frame.

In *photograph 20*, the first door (with the pivot hinge) is completed and the installers beginning to install the second door. This one has "butt" hinges. *Photograph 21* shows the butt hinge for a narrow stile aluminum door and the "prep" in the frame for that hinge.

Photograph 22, details the attachment of the bottom butt hinge and *photograph 23*, shows the



Photograph 18.



Photograph 19.



Photograph 20.

top butt hinge in place and awaiting the screws to secure it to the frame.

Photograph 24, shows the second door as a completed unit.

As you can see the "Door-In-A-Box" concept opens a lot of possibilities to the locksmith, or door tech that wants to explore and exploit new markets and products.

Even if you consider this New World Aluminum product as a sort of last resort application for your customers, you will position yourself as a problem solver.

For more information on these New World Aluminum Doors contact Keystone Door and Locksmith. Phone: 570-385-9600.

"Our income is limited only by the restrictions we put on our willingness to explore new markets and learn new skills."—Jake Jakubowski. TNL



Photograph 21.



Photograph 22.



Photograph 23.



Photograph 24.

**NEW
FOR 2005!
More Products
for the
Vault Service
Technician**



FAK-77
7700 SERIES
BYPASS TOOL

KEYBLANKS by
TMI, CORP.



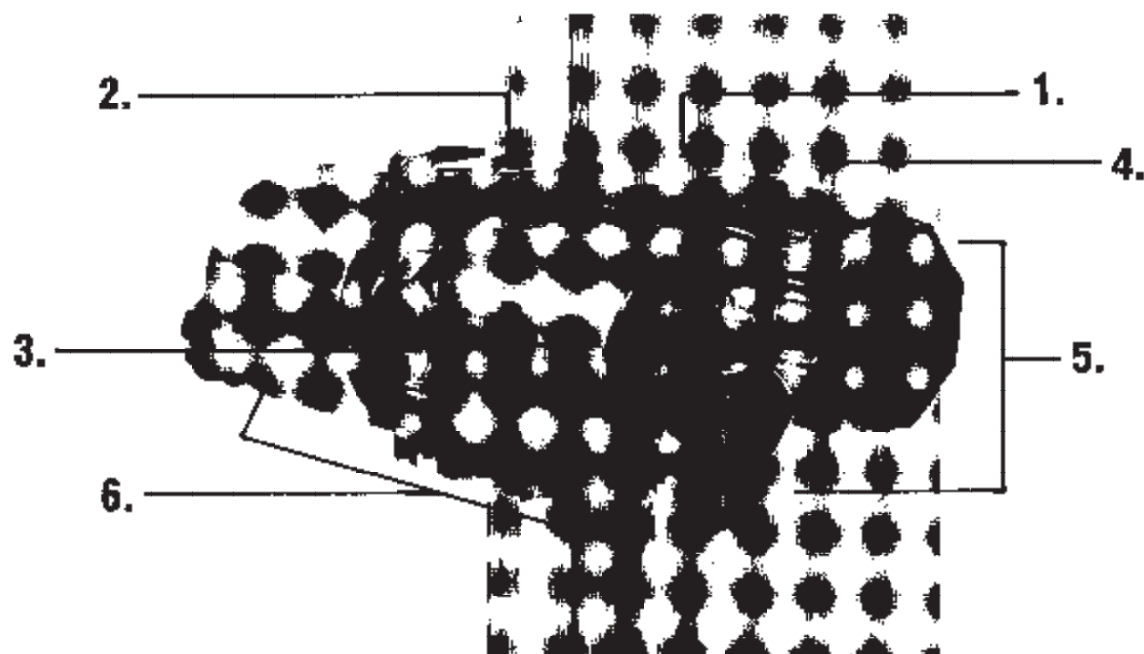
Ask your Distributor for TMI
Timelock, Vault Lock, and
Safe Deposit products today.



Innovation by Design

www.worldclasslocks.com

ACCURACY HIT-44



HIT-44 "DRILLMASTER"-Revolutionary New Boring Jig Designed For Pin-Point Accuracy!

1. Jaws are soft-padded to protect door surface insuring a firm grip 2. Back-set can be changed from $2\frac{3}{8}$ " to $2\frac{5}{4}$ " with a turn of a knob 3. Interchangeable adaptors allow the use of Auger Bits, Multi-Spur Bits or Hole Saws 4. Multi-Spur Guide is removable to allow the use of Hole Saws for steel door installations 5. Unique new design permits positive grip to door 6. Solid Construction using cast and machined aluminum

■ Centering of latch hole completely adjustable ■ All bushings and parts serviceable if required ■ Available as jig only or in kit form ■ You can't miss with the accuracy of the HIT-44 "DRILLMASTER!"

AVAILABLE FROM YOUR LOCKSMITH DISTRIBUTOR!



Drill Adaptor
For Auger Use

Major
MANUFACTURING, INC.

1925 Via Burton, Anaheim, CA 92806
714/772-5202 • FAX 714/772-2302 • www.majormfg.com
Copyright 1996 Major Mfg., Inc.



Drill Adaptor
For Multi-Spur Use

Gun Security



Gun storage containers come in a multitude of designs, sizes and levels of protection. This product array assuring that one will fit your customer's needs if they are made aware of what's available and why it's important to have.

Fort Knox Security

In an era that sees safe manufactures experiencing the need to have the lowest price to get sales, Fort Knox Security Products continues to achieve perfection; especially the Guardian Series.

New this year to the Guardian Series is our standard reinforced fire door. This addition nearly doubles the fire protection of the Guardian, moving it to 1680

degrees in 90-minutes. With the reinforced fire door, patented star corner bolts, a 5 to 1 reduction rack and pinion multi-gear drive locking system and our four stage, high luster baked acrylic urethane metallic finish, the Guardian Series sets the standard for the rest of the industry.

The precise production practices, allow Fort Knox to offer the industry's only true Lifetime warranty; which includes the Sargent and Greenleaf locks. This warranty is the icing on the Guardian Series. The Guardian safe by Fort Knox proves that a low price is never a substitute for true protection.

as ammunition. Additional space allows you to store valuables and protect them from unwanted intruders. A 1/2" thick door reinforced with 5 active 1 1/2" round locking bolts, provides excellent security. Four pre-drilled holes provide a secure bolt down that will prevent the safe from being moved.

Standard locking mechanism includes a six digit electronic lock. Ease of access as well as the ability to change your individual combination makes this the preferred method of securing your safe. Gardall makes this safe in four convenient sizes to meet all of your gun storage needs.

Gardall

The Gardall model B1515 is ideal for handgun storage. One adjustable shelf allows for storage of more than one handgun as well

HPC Wall Safes

Keeping guns and pistols safe and secure is extremely important in the locksmith community. You do not want your HPC Pistolpick™, Electropick™, or Graphite Gun to get into the



OUR 14 PIECE SYSTEM OPENS **100%** OF ALL CAR OPENINGS



One Z-Tool®, plus 12 additional tools and one manual will open 100% of all possible car openings. Our Grand Master Z-Tool System is the most comprehensive, streamlined car opening system available. You will never go back to a 50 piece kit again. The Grand Master Z-Tool System is simply the best.



***“You will never go back to a
50 piece kit again!”***

Slide Lock Tool Co., 1166 Topside Road, Louisville, TN 37777
1-800-336-8812 • 1-865-577-8470 • Fax: 1-865-577-5936 • Online: www.z-tool.com

Continued from page 34

wrong hands. They are essential tools that you need ready access to at all times. They should be stored in either of the two different sized wall safes offered by HPC, Inc. The design of these safes allows for easy installation between wall studs offering more than 14" width and 3.25" depth of storage. The interior of the WS-100 is 8.5" tall and the interior WS-200 is an ample 12.5" tall. Both safes come with your choice of a tubular lock, combination lock, or HPC's new mortise cylinder lock (accommodates your 1" mortise cylinder).

HPC's Wall Safes are constructed of heavy gauge steel and all locking and hinge points are dual reinforced. These safes feature true flush mounting with the hinge and lock seated below the surface. This guarantees that a mirror or picture placed over an HPC wall safe will hang flat.

You will feel secure knowing an HPC Wall Safe is protecting your locksmith guns.

Perma-Vault's Stackable Pistol Box

Perma-Vault's stackable pistol boxes are designed to be used in any facility where secure weapons storage is required. Locksmiths seeking to sell this type of security can find potential sales at police or sheriff's departments, airports, courthouses and municipal buildings. Potential

sales could be secured by building up relationships with governmental purchasing agents as well as officers of various law enforcement agencies or airport authorities and showing the benefits of the Perma-Vault units. The basic single unit measures 7" H x 8 3/4" W x 13" D or 8 3/4" H x 7" W x 13" D. Boxes can be custom designed to meet an individual customer's needs, and can be mounted to a wall, on desktops or countertops for convenient access and control.

Each unit is made in the U.S.A. of heavy gauge steel with padded insert to protect contents and powder coated finish for long life. The pistol boxes can be equipped with Medeco or other high security camlocks, and can be master keyed to a customer's specifications. Other lock styles, such as dual key, pushbutton, electronic, or dial combination locks, are also available.



The Northeast's Premier Industry Event

27 YEARS OF EXCELLENCE

YANKEE SECURITY CONVENTION AND TRADE SHOW

NOVEMBER 2-6, 2005

Sturbridge Host Hotel in Sturbridge, MA

2005
YANKEE SECURITY CONVENTION & TRADE SHOW
THE TRADITION CONTINUES
NOV. 2 through 6

For additional information and registration, visit us at www.yankeesecurity.org

- 15 Training Classes PLUS FREE Life Safety Codes for Locksmiths Class
- Two-Day Trade Show Event
 - Over 100 Booths
 - Many new products and tools
 - Gift for registering
- Scenic location – bring the family!

EDUCATION
TRAINING
TRADE SHOW
KNOWLEDGE
NEW PRODUCTS

wrong hands. They are essential tools that you need ready access to at all times. They should be stored in either of the two different sized wall safes offered by HPC, Inc. The design of these safes allows for easy installation between wall studs offering more than 14" width and 3.25" depth of storage. The interior of the WS-100 is 8.5" tall and the interior WS-200 is an ample 12.5" tall. Both safes come with your choice of a tubular lock, combination lock, or HPC's new mortise cylinder lock (accommodates your 1" mortise cylinder).

HPC's Wall Safes are constructed of heavy gauge steel and all locking and hinge points are dual reinforced. These safes feature true flush mounting with the hinge and lock seated below the surface. This guarantees that a mirror or picture placed over an HPC wall safe will hang flat.

You will feel secure knowing an HPC Wall Safe is protecting your locksmith guns.

Perma-Vault's Stackable Pistol Box

Perma-Vault's stackable pistol boxes are designed to be used in any facility where secure weapons storage is required. Locksmiths seeking to sell this type of security can find potential sales at police or sheriff's departments, airports, courthouses and municipal buildings. Potential

sales could be secured by building up relationships with governmental purchasing agents as well as officers of various law enforcement agencies or airport authorities and showing the benefits of the Perma-Vault units. The basic single unit measures 7" H x 8 3/4" W x 13" D or 8 3/4" H x 7" W x 13" D. Boxes can be custom designed to meet an individual customer's needs, and can be mounted to a wall, on desktops or countertops for convenient access and control.

Each unit is made in the U.S.A. of heavy gauge steel with padded insert to protect contents and powder coated finish for long life. The pistol boxes can be equipped with Medeco or other high security camlocks, and can be master keyed to a customer's specifications. Other lock styles, such as dual key, pushbutton, electronic, or dial combination locks, are also available.



Locksmith Bonding

The biggest Bond in the Industry

**\$15,000
Locksmith
Bond!**

The National Locksmith offers the largest Locksmith Bond in the Industry, by far. Along with your subscription, you are invited to become Bonded by us. If you are the individual subscribing to the magazine, your Bond will cost only \$17 and expires at the same time as your subscription. If you choose, you may also bond non-subscribing employees for \$25 each.

Your Bond includes a \$15,000.00 personalized and frameable Bond Certificate, and a wallet Bond Card. Many customers insist on hiring only Bonded Locksmiths, so apply for your Bond today!

If you currently have our older \$5,000 Bond, you will be invited to apply for the new one at renewal time. Or if you would like to upgrade now, we will send you the new one for \$17 if you are the subscriber or \$25 if you are not a subscriber.

☐ Subscriber Bond \$17

☐ Non-Subscriber Bond \$25

Add \$2 for shipping and handling

Return with payment to:

The National Publishing Co.
97592 Eagle Way
Chicago, IL 60678-9750

Bonds available in U.S. and
Canada only.

Your Name _____

Shop Name _____

Address _____

City _____

State _____ Zip _____

Phone () _____

To order Bonds for employees who do not subscribe, attach a sheet with their names, addresses, and phone numbers. Be sure to include \$25.00 additional for each non-subscriber Bond. You may issue one check or money order for the total amount.

OID:3/05

Gun Storage Electronic Safes From PRO LOK

PRO-LOK's affordable Entry Level Safes are the perfect little safe for gun storage. Both safes are compact in size. The small safe is 13 3/4" x 10" x 10" and the large



safe is 15" x 12" x 12". These safes are very easy to operate; just punch in your combination and open the safe. You can very simply reset the safe to your own combination any time you want in just a matter of seconds. For additional ease of operation a manual key override is also included.

These safes are constructed from solid steel and have 2 steel locking bolts for extra security. Anchor bolts are provided for simple installation. There is a removable shelf and a FREE gift inside each safe (a FREE steel lock box). Each safe is boxed in beautiful retail packaging that is sure to get your customer interested. These safes have passed the following testing requirements for gun storage: Picking, Manipulation, Forced Removal, Tensile, Shock, Plug Pulling, Plug Torque, Sawing and Dropping.

Part# GLSF-08 (small) and GLSF-10 (large).

Tufloc

The TufBox by Tufloc is a gun case designed to carry pistols, jewelry or other valuables. Constructed from 14-gauge welded metal, the case is finished with powder-coated paint and is lined with 1" egg-crate foam. The TufBox, which is available through locksmith distributors, can be ordered with a Medeco key lock, which can be keyed alike, differently, or master keyed, or a pushbutton combination lock. The TufBox can be mounted under a vehicle's seat, in the trunk, or can be used in homes or mounted under office desks. **RL**



JLM
WHOLESALE

Buy it Here, Get it Quick!

Midwest 800-522-2940

www.jlmwholesale.com

Southeast 800-768-6050

<p>Schlage Cobra & King Cobra</p>	<p>HES 5000</p>	<p>Locknetics 505 Series Power Supplies</p>	<p>SABL by Securitron</p>	<p>Vom Duprin Exit Devices</p>	<p>390PIR from Locknetics</p>
<p>Push Buttons</p>	<p>Detex ECL-230 & EA500</p>	<p>In Stock!</p> <p>Our huge inventory of products are ready for same day shipping!</p>		<p>Schlage Deadbolts, Cylinders & Keys</p>	<p>Alarm Lock Panic Locks</p>
<p>Select Hinges</p>	<p>Por-O-Matic SC60 Closers</p>			<p>Alarm Lock PL2700</p>	<p>Trine Electric Strikes</p>



Emergency Response Kit:

Deluxe soft case, Super Air jack, One Hand jack, Super One Hand Jack, Glass Man, Rubber wedge, Remote control Button Master, Mighty Max 2 piece Long Reach tool, Flexible Long Reach Tool

Sale Price # ERK \$129.95



Value Set: Standard Soft Case, Two Volume Car, Truck, and SUV Opening Manuals, 12 Chrome Tools, Tough Wedge, Wedgee Wedge, Strip Savers, Super Strap Tool, Slim Jim, Training Video. **Item# AM04VS- \$119.95**

Lightning Rod

The lightning Rod™ uses the same shielded glow in the Dark technology as the SQM long reach tool, but includes a Lighted tip that illuminates the inside of the vehicle so you can see what you're doing in the dark or through tinted windows.

Sale Price Item# LR \$39.95

Shielded Quick Max Tool™

Nylon Case

One Hand Jack

Special Stiff Insert Makes Insertion Easy

Air Jack

One Hand Jack Set: Shielded Quick Max Long Reach Tool, One Hand Jack Tool, Air Jack Air Wedge, Super Strap Tool, Carrying Case. **Sale Price #OHJS4 \$54.95**

Remote Control Button Master

Unlocks vehicles with Vertical Buttons. Just Hook the door lock button with the loop, and pull on the control knob.

Sale Price Item #RCBM \$22.95

HIGH TECH **Access Tools**
 1628 NW 28th Street • Miami, FL 33142
 1-800-323-8324

Free Stuff with our Master Locksmith Set



Only \$299

- Unlocks Virtually Every Vehicle From a VW Bug To a Mack 18 wheeler
- Most Complete up to date Lockout set on the Market
- 100% money back guarantee!
- Lifetime Tool Replacement Guarantee
- Included 2006 early release vehicles!
- 1600 Page manuals with Photo instructions and Diagrams!
- Includes 30 tools making every opening a fast easy opening

FREE Air Jack Air Wedge

The best air wedge on the Market, made from Ballistic Nylon with special Stiffener for easy insertion!

Free One Hand Jack Tool

The One Hand Jack™ works in conjunction with our Air Jack to make emergency openings fool Proof!

Free Coated Long Reach Tool

Our Long reach tool is flexible and Coated with a Scratch free Polymer.

Free GlassMan™ Tool

Makes unlocking vehicles with frameless windows and cabled locks quick easy and safe!

Free Truck Opening Set

Our exclusive Medium and Heavy Duty Truck opening set, unlock every truck even 18 wheelers

Free Information Manual

Our information manual has code information, key blanks, space and depth and more!

Free Lock-Out Video

See openings from outside as well as inside the vehicle, nothing else like it anywhere!



High tech Tools • 1628 N.W. 28th Street • Miami, FL. 33142 • 305-635-1011 • Fax 305-635-1015 • www.hightechnetools.com



by
Sal Dulcamaro, CML

PICKS AND DECODE TOOLS FOR GM IGNITIONS



Over the years, I've written about quite a few locksmith tools from A-1 Security Manufacturing Corp. A-1 makes and distributes a large variety of locksmith tools and accessories that are of high quality and very useful to own by the locksmith who wants to do his (or her) job more efficiently and professionally. Although they make a lot of tools for automotive lock servicing, their product line covers the full range of locksmithing products.

When I was asked to review the A-1 brand product known as model #PS-10, I didn't immediately connect it with the tool that was its predecessor. #PS-10 identifies the "Complete Service Kit for Picking and Decoding GM Double-sided Ignitions In-Dash & Column Mounted". Now that's a mouth full. To sum it up, it is an assortment of tools that are designed to give you the ability to remove column and dash mount ignition locks for GM 10-cut keys. It's essentially the combination of two independent tool assortments that were separately made for servicing only the dash mount and only column mounted GM 10-cut style locks. Since certain tools overlap in both kits, it is more economical to own the combined kit instead of both separate kits.

My history with the original tool goes back many years. In fact, it goes back to when Greg Mango was my editor years ago at *Reed's Security Reporter* magazine. I can't remember exactly when I first saw the tool, but it must have been between 1993 and 1995 (the years when RSR was published). I was contacted by Carl Stramer about a tool kit he had designed for the removal of the first 10-cut GM column mounted ignitions. If you have only been involved in locksmithing for the last 10-years or less, you probably don't know what *Reed's Security Reporter* was, who Carl Stramer was, or how much simpler automotive locksmithing used to be. Ah, the good old days.

For those of you who weren't around then to know (and those of us who want to reminisce), *Reed's Security Reporter* was a great locksmith magazine published by Bill Reed from 1993-1995. Bill Reed (now deceased) was one of the legends of our industry. He is remembered fondly by many locksmiths, and he is still missed by those of us who knew and worked with him. Greg, who is my editor at *The National Locksmith*, was my editor back in the glory days of *Reed's Security Reporter*.

Carl Stramer, on the other hand, was not a locksmith. Carl,

however, was very helpful to the automotive locksmith for many years. He worked for General Motors as part of their team that tried to improve automotive security. For many years, he would routinely visit the various local and national locksmith associations to update us on the changes in GM lock and security systems. When he retired from GM, he used his vast knowledge of GM locking systems and his previous interaction with the automotive locksmithing community to teach and develop tools independently.

As fate would have it, some day in either 1993 or 1994, Carl called me on the phone to tell me about a method he had developed for removing the new (at that time) 10-cut double sided GM ignition locks. This was the new modular system introduced by GM that made ignition lock removal faster and easier (than the earlier column locks) as long as you had a key to the ignition. If you didn't have an ignition key, then the removal process was a bit trickier. There was a reason for this complication for removal without a key. The new GM ignition locks had an active retainer (slightly similar to Ford ignition locks) that required that you turn the key in the ignition lock before the retainer could be pushed in to

Continued on page 42

**NOW EDGE™ KEY CONTROL KEEPS
YOUR CUSTOMERS COMING BACK.**



Edge™ *Introducing Edge™ key control:
the patent-pending system that
brings customers back to you — only you —
again and again.*

What a great way to gain new customers and
lock-in business for years to come!

Unlike costly "high security" systems, Edge lets
you offer the kind of security a multitude of
businesses need for door locks, padlocks —
the works.

No one can duplicate keys without their
consent. And no one can duplicate keys for
them but you!

Repeat business you can "own."

Edge key control prospects are everywhere — local
restaurants, strip malls, utilities,
hospitals, municipalities, neigh-
borhood stores, franchisees ...
the list goes on.

Edge lets you deliver the
key-control security
they want — and
can pay for. Year
after year after year.

Ask your distributor about
Edge key control today.

NOW SERVING
97



Edge fits American Lock® and Master Lock® commercial
security products, as well as other makes.



Continued from page 40

release the lock from the steering column. That meant that if you didn't have a key, you needed to pick or drill the lock in order to remove it.

Picking a sidebar lock has always been tricky and not widely practiced by most locksmiths. As a consequence, the first methods of ignition lock removal for the 10-cut key locks usually involved some means of force or physical damage to the lock itself. Carl indicated to me that he didn't think those methods were particularly professional, since a non-damaging picking method could be used to remove those locks. I had not heard of any such method, so I inquired further. Apparently, I hadn't heard about such a method because he was the one who developed it and he hadn't told many people about it yet. When he showed up at my shop, he had a GM steering column with one of the new modular ignition locks. He demonstrated his method to me and let me try it myself. I was quite impressed. He asked if I wanted to write about his new method, and I told him that I would contact my editor to get the ball rolling.

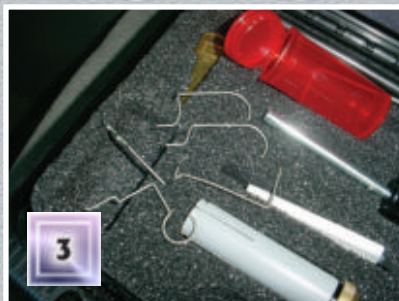
I called Greg (who was then Managing Editor of Reed's Security Reporter) and told him about this new method of lock removal for the new 10-cut GM ignition locks. Greg was very interested and told me to pursue the article. I would have written that article, except that there were a few restrictions that Carl put on me. I'm not sure if the patent paper work hadn't been completed yet, or if he hadn't yet lined up a company to produce and distribute the tool, but the train was about to jump the track. Carl said that I could explain that I saw the method work successfully



A specially modified key.



Four rocker picks.



Two of the wire tools for engaging the sidebar.



The modular 10-cut steering column mount ignition lock.

and be somewhat vague about the actual procedure, but I could not write about it in any great detail. When I told Greg about that restriction, he indicated to me that we'd either do a serious detailed technical article about the lock

removal method or we wouldn't do the article at all. That was the end of that possible article. The editor killed it, and rightfully so.

Fast forward to the present and I can now describe a method of lock removal for a locking system that's now fairly old. Model #PS-10 is A-1's complete kit for servicing GM 10-cut ignition locks, (see photograph 1). Some of the tools in the kit are virtually identical to the prototype tools Carl showed me more than 10-years ago. The four rocker picks in the kit look the same, (see photograph 2). Two of the wire tools for engaging the sidebar are essentially the same, (see photograph 3) Many of the other tools are for dash mount ignitions and weren't around way back when, since the in-dash ignition was not around then.

The modular 10-cut steering column mount ignition lock comes in a few different versions and forms, (see photograph 4). Most of them are not much different than the original modular lock design, but there are a few variations. When Carl first demonstrated his method to me, he brought a steering column with the plastic shroud already removed. If you need to remove the shroud to remove the lock, and in most cases you do, you can use a two-ended torx wrench to remove the torx screws holding the shroud on the column, (see photograph 5). There were four different wire tools in the kit shown in an earlier photo. The two wires I referred to that were the same as Carl had originally made, are mostly the same with just subtle differences in the bends, (see photograph 6). I think he told me he had made the original wire tools from wire type key rings bent to the shape he needed.

Continued on page 44

Special Offer
Free TD3A II

Increase Your PROFIT\$. Buy NOW ! The TD3DAP50 Package

**Get the New Ilco's Second Generation Transponder Key Detector
Tool for FREE valued at \$155.00**

When you buy 50 DAP-keys™ at \$19.95 each



FYI: In February 2004 the Toyota Corporation which encompasses Lexus and Toyota became # 2 in the global market beating out Ford Corporation and by their objectives anticipate being #1 by the year 2010. With that noted the automotive market experts stated that the Toyota Corporation is ahead of schedule and will be #1 before 2010.

Question: Is your business currently repairing, refurbishing and programming Lexus-Toyota Remotes & Keys ?

Statement: With our primary business being automotive and with over 92 years of combined locksmith experience we are constantly developing products and services to enhance your bottom line without a large capital investment.

Now from the company who provides the MCP and VA-Code we are happy to announce the TD3DAP50 product that can yield up to ten times ROI (Return on Investment).

TD3DAP50 Package is a system integrating the Ilco TD3AII Transponder Detection Tool, DAP-Keys™, Application and Programming Chart which can accurately and efficiently determine rolling, fixed or encrypted codes, which enables you to take "random" remotes and refurbish them to sell for \$150 - \$200 each.



Toyota Land Cruiser



Lexus Short



Lexus Medium



Lexus Long

Order TD3DAP50 Today ! and Get Free Shipping
Offer Expires 12/31/05

To Order Call Us at 800-860-5625

American
Auto Lock.com

For quality products at competitive prices check us out at our website at www.americanautolock.com

Continued from page 42

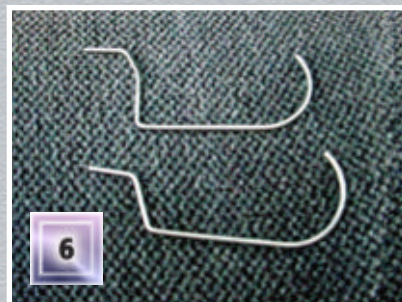
When everyone else was using a drill or force methods, Carl Stramer was able to use a pick method because he found a means of applying pressure directly to the sidebar to pick the lock. It might be easier to tell with the shroud removed, but the wire tool would slip under the ears of the ignition lock, (*see photograph 7*). A slight gap between the lock shell and plug created enough space for the wire tool to slip in



A two-ended torx wrench.

and line up inside against the sidebar.

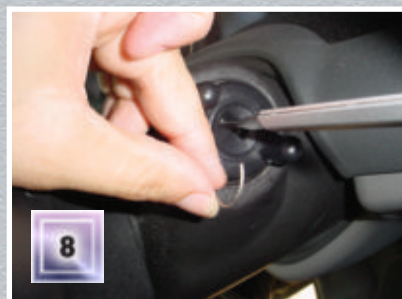
By applying pressure to the sidebar with the wire tool you can



Two wires I referred to.



The wire tool would slip under the ears.



Use one of the four rocker picks to manipulate the tumblers.

use one of the four rocker picks to manipulate the tumblers, (*see photograph 8*). Once you force in the sidebar with the wire tool, you can rotate the plug to the on position where the retainer can be pushed in to release the lock. A variety of twists and turns in the retainer tool allow you to work partially blind to feel the spot where the retainer is located, (*see photograph 9*). This is usually done with the shroud off, although in some circumstances it is possible to reach the retainer with the shroud partially removed.

Certain GM vehicles have ignition locks that do not completely remove. For GM trucks and some other vehicles only the plug comes out. In those situations, a specially modified key is used during the removal

Lockcraft® Surges Ahead



Get used to our market momentum! Lockcraft keeps your sales moving with our ever-expanding lineup of automotive locks, keys and service tools. Ask for all the OEM quality replacements you need -- for Ford, Daimler-Chrysler, Nissan, Honda, Toyota, and more. Yes, Lockcraft is still priced tight and right. Yes, Lockcraft still boasts 5-day/90% order fill. Yes, Lockcraft still offers the best profit opportunities in the business for you. Surge ahead with Lockcraft!



2345 N. Central Avenue
Brownsville, TX 78521

Phone: 965-838-2480 FAX 956-838-1796



Twists and turns in the retainer tool allow you to work partially blind.



A specially modified key is used during the removal process.



In-dash ignition lock.



A special tool is used to remove the ignition lock bezel.

process to prevent damage to the mechanism, (see photograph 10). The step is detailed in the instruction sheet. Servicing procedures are similar for most of the column mounted ignition locks, but some of the differences are very significant. Make sure you know which version lock you are working on before proceeding on the lock removal and decode process.

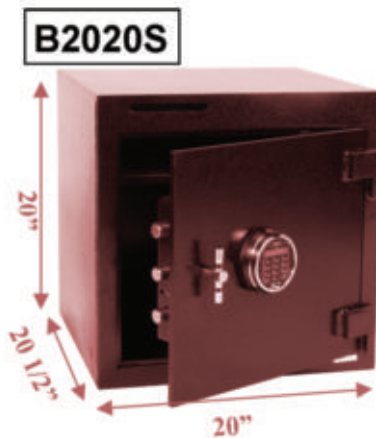


Tighten the brass thumb nut.

In-Dash Ignition Locks

I was somewhat familiar with the ignition tools I just described,

since I had seen similar prototypes more than 10-years ago. Those tools work with the GM steering column mounted ignition locks. That ranges from the earliest versions of the lock to the assorted variations that are around now. Up until now, I had not worked on the in-dash ignitions. I was somewhat surprised and impressed by the tools for the in-dash ignitions. I had not seen those tools before. If you aren't aware, General Motors



S&G Fingerprint Keypad



Touch the Future

Learn more by calling Mandy, 800.342.3033 ext. 120

www.safe-help.com

SQUIRE



225
Years Of Lock Making

**For more information
Please contact Squire USA**

Tel: (815) 857-4460
Fax: (815) 857-4340
Email: SquireUSAInfo@aol.com



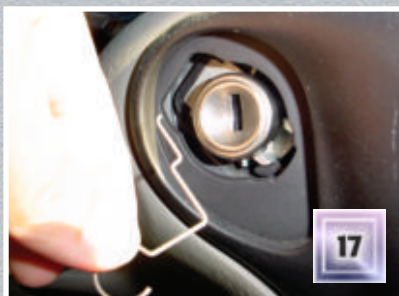
The bezel will come out and expose the lock.



The hooked end is used to remove the ignition cap.



Use a drill jig to drill a hole on the left side of the sidebar.



A different wire is used to apply sidebar pressure with the in-dash locks.



A different wire tool is used to engage the lock retainer.

is now making a number of different car models with dash mount ignition locks.

The Chevy Malibu is one of the newer GM vehicles that have in-dash ignition locks, (see photograph 11). It had been quite a few years since I had seen cars that didn't have the ignition locks mounted in the steering column. A special tool is used to remove the ignition lock bezel, (see photograph 12). It centers over the lock plug face and a ridge on the outside of the tool interacts with the circular opening of the bezel. As you hold the tool in place you tighten the brass thumb nut, (see photograph 13). That grabs and holds onto the bezel. You then rock the tool gently up and down while pulling the tool toward you. The bezel will come out of the dash and expose the lock behind it, (see photograph 14). Loosen the brass thumb nut to release the bezel from the tool.

The opposite side of the tool has a hooked end and is used to remove the ignition cap, (see photograph 15). I borrowed the car for a short time for these photos (it already had a key), so I wasn't in a position to take the next step which involved drilling. I didn't remove the cap, but the instructions explain to do it carefully so the cap can be reused. Once you remove the cap, you will use a drill jig that is included with the kit to drill a hole that will gain you access to the left side of the sidebar in the lock plug, (see photograph 16).

You will recall an earlier reference to some wire tools used to apply pressure to the sidebar of the column mounted ignition locks. Also included in the kit is a different wire tool that is used to apply sidebar pressure with the in-dash ignition locks, (see photograph 17). The other tools took advantage of a gap in the ignition lock to make contact with the sidebar. There is no such gap

Continued on page 48



Your Neighborhood Distribution Center

Visit Us
Online
IDN-INC.COM

NOW
49
Locations

Corp. Hqtrs
Grapevine, TX
817-421-5470

Albuquerque, NM
505-816-0100

Atlanta, GA
404-898-8740

Buffalo, NY
716-626-1208

Calgary, Alberta
403-291-4844

Chicago, IL
708-456-9600

Cincinnati, OH
513-271-8530

Cleveland, OH
216-335-9740

Columbus, OH
614-436-6619

Dallas, TX
972-664-1240

Davenport, IA
563-391-8366

Denver, CO
303-922-3041

Detroit, MI
586-755-3658

Edmonton, Alberta
780-944-0014

Fort Worth, TX
817-284-5696

Grand Rapids, MI
616-534-1067

Halifax, Nova Scotia
(2 locations)
902-468-1373

Hartford, CT
860-296-7886

RESTORE KEY CONTROL A-Q AND MAINTAIN YOUR CURRENT KEY SYSTEM.



ARROW
CHOICE
Interchangeable Core System

There's only one patented interchangeable core that integrates with existing key systems having A through Q keyways, upgrades security and affords authorized key control - The Cho/Ce Plus interchangeable core system. Cho/Ce Plus offers convenience and security, making even the best key system better!



Contact your local IDN Distributor for more information about Arrow Interchangeable Core Products.

An ASSA ABLOY Group company

ASSA ABLOY

New Orleans, LA
504-837-7315

Norfolk, VA
757-853-0611

Oklahoma City, OK
405-942-8750

Omaha, NE
402-592-1652

Orlando, FL
407-297-7722

Ottawa, Ont.
613-749-2172

Philadelphia, PA
215-288-5588

Phoenix, AZ
602-272-5300

Pittsburgh, PA
412-771-6122

Raleigh, NC
919-227-0007

San Antonio, TX
210-545-3396

St. Louis, MO
314-692-8391

Syracuse, NY
315-455-9305

Tampa, FL
813-886-8007

Toronto, Ont.
416-248-5625

Tucson, AZ
520-322-5675

Vancouver, B.C.
604-253-0017

Houston, TX
713-668-0022

Kansas City, KS
913-599-4111

Los Angeles, CA
562-463-4870

Milwaukee, WI
262-790-9750

Indianapolis, IN
317-635-8100

Las Vegas, NV
702-736-4553

Memphis, TN
901-795-2250

Minneapolis, MN
952-886-3840

Jacksonville, FL
904-387-0663

Livonia, MI
(3 locations)
734-591-1150

Miami, FL
305-651-1598

Montreal, Quebec
514-956-0248



**CCTV • SAFES • DOOR HARDWARE • ACCESS CONTROL
SECURITY PRODUCTS • LOCKSMITHING TOOLS**

WE HAVE THE PRICE & THE STOCK YOU WANT!

CODELOCKS
control • convenience
LIFETIME WARRANTY

CL210K \$72
Standard Duty
Mortise Deadbolt or Latch

CL415 \$96
Medium Duty
Tubular Mortise Latch

CL515 \$150
Heavy Duty
Mortise Latch

KABA 1011 26D
CALL US!!!

Alarm Lock T2
We Stock all Finishes!
US3, US5, 10B, 26, 26D
GREAT PRICES... CALL US!

HL FLAKE
800-231-4105 * FREE FREIGHT
WWW.HLFLAKE.COM \$125 ORDER

Circle 216 on Rapid Reply

Mark Your Keys!
Key Shop Name * Security Code
Special Instructions
CUSTOM STAMPS
We can customize an
Evers stamp with your
trademark, code,
special lettering, shop
name etc. Submit
design, lettering and
size area for quote.
ORDER TODAY
DIRECT FROM MANUFACTURER
STOCK IMPRINTS: "Master," "Do
Not Duplicate," "Do Not Copy," "U.S.
Property," "Property of U.S. Gov't,"
and "Unlawful to Duplicate"

Key Stamp Holder
for 3/8" x
3/4" Shank
Quick and simple to
use for faster, easier
marking
NO. E6H

Security Code Stamps
500 different symbols
FREE BROCHURES

HENRY A. EVERS CORP.
72 N. Oxford St., Providence RI 02905
TOLL FREE: 1-800-55-EVERS
Phone: 401-781-4767 Fax: 401-781-9581

Continued from page 46



19. The tool inserts around 4 o'clock on a clock face.



20. A tumbler decoding gage included with the tool kit.

with the in-dash ignition lock. Drilling is required to create an opening to reach the sidebar with the wire tool. Once drilled the procedure for picking would be the same with the in-dash lock as it was with the column lock. You would use the rocker picks while applying pressure to the sidebar with the wire tool.

Once the sidebar is depressed, the plug should be turned until the rotation is stopped by the wire tool binding. Carefully pull out the wire tool while preventing the plug from rotating counter-clockwise, and continue rotating the plug to the "on" position. The lock retainer will only push in if the plug is in the On position. A different wire tool is used to engage the lock retainer in order to remove the lock from the dash, (see photograph 18). If the lock plug had been drilled and picked, the keyway would be rotated further clockwise (in the "on" position). The wire tool inserts through the open gap around 4 o'clock on a clock face, (see photograph 19).

You would push the lock cylinder into the dash slightly to

relieve pressure on the ignition lock cylinder housing retainer. The wire tool that fits into the gap for the lock retainer is called the Lock Cylinder Release Tool. You would insert the release tool with the curve toward the lock cylinder plug. The release tool fits between the lock cylinder housing and the dash housing at the 4 o'clock position. As the tool is slid between the housings, pressure should be applied to the lock cylinder retainer "leaf spring" which will disengage the retainer from the in-dash housing. You would then be able to pull the plug and plug housing from the dash housing.

Key Fitting

With either the column or in-dash lock in your hand, you would first check for a key code number on the outside of the lock case. Typically, it will be stamped into the metal lock body like a "dot matrix" pattern. It may be difficult to read, and sometimes rubbing a pencil eraser or darkening the lock surface with a marker may make viewing the code number easier.

If reading the code number is not a practical option, you have the additional option of removing the plug and decoding the tumblers with a tumbler decoding gage included with the tool kit, (see photograph 20). If you look closely, you can see four scribed marks indicating the four different tumbler settings.

This A-1 tool kit seems ideal for the locksmith who has to service a variety of GM car locks. Everything is packaged neatly in the carry case, so you don't forget anything. You should be able to find this and other quality A-1 products at most locksmith supply companies. You can find more about the full range of A-1 products by looking for them online at: www.demandA1.com.

TNL



GKL Products

The Hinge Doctor

877-446-4337

Buy it once & use it ... again & again...



Repair Sagging Doors in Seconds!
Fixes Bent & Worn Hinges Instantly!



This to this
in seconds..

www.hingedoctor.com



No more back aches
from pulling & rehanging doors!

The Hinge Dr. is Here!!!



Circle 219 on Rapid Reply

High Tech Opening Tools & Procedures

With the redesign many vehicle doors incorporating cable locking linkages and air bag systems, vehicle openings have become increasingly more difficult. In this ever changing segment of the business, it is more important than ever to be up to date with the latest opening procedures, tools and reference material.

High Tech Vehicle Access Tools

Opening the Chevrolet TrailBlazer

How do you keep an automobile lockout customer happy? For many locksmiths this is an important question because in numerous cases, the number of auto lockouts is far greater than lockouts of homes or businesses. In some cases, some companies only do auto lockouts, making customer satisfaction crucial. Believe it or not, aside from professional courtesy, the type of equipment you have plays a major role in the overall satisfaction of any customer. You might wonder why equipment matters; shouldn't courtesy be first on the list? It is an extremely important aspect of good service, but first and foremost, the customer wants to get back in their vehicle

and back on their way, without any hassles and with no damage to their vehicle. One way to solve the compromise between quick service with no damage or hassles would be to use High Tech's Vehicle Access System.

This comprehensive system has everything needed to get into a vehicle, quickly, safely, and reliably. However, it is important to understand which set is right for your needs. High Tech Tools has sets ranging from basic to full with most accessories included, and even a set designed specifically for big rigs. Every complete set includes High Tech's famous manuals, with easy to understand instructions, complete with diagrams and in most cases, photos, allowing you to get a good visual of what you are actually looking for.

Another key feature of High Tech Tools with the larger sets is the large variety of tools, most with a specific vehicle or specific set of vehi-

cles in mind. You may wonder why so many tools? Why carry around so many tools when I use only a few? Reasons being that many of the specialty tools were created especially for those vehicles that cannot be opened with the standard tools, such as 1997-1999 Camry 4-Door. Many locksmiths were resorting to jacking the door on this particular model, when there is no need for it. Yes, High Tech does sell jack

Continued on page 52



GATES = ANOTHER DOOR

(with hinges and a lock)



Almost every residential home, apartment complex, or public or commercial facility has gates with old, rusty, metal latch and hinge hardware. We're talking millions of replacement opportunities!

Letting your customers know they now have an opportunity to eliminate rusting, while improving security

and convenience with D&D's latches, locks and hinges, is your easy path to increased sales and profits. All you have to do is ask for the order.

D&D's products carry a limited LIFETIME WARRANTY and are made of super-strong engineering polymers that will never rust, chip or peel, and are maintenance free.

Magnetic Gate Lock

An Industry Revolution!



Locking security for picket-style gates



What's in it for locksmiths?

- Saves installation time, hassles and \$\$\$
- No milling, hole-drilling or welding required
- No jigs or special tools required
- Two sizes to fit almost any picket-style gate
- Rekeyable, 6-pin lock cylinders
- Fully adjustable, vertically & horizontally
- High-quality stainless steel components
- Proven, reliable D&D magnetic technology
- Super-strong, engineering polymers and stainless steel construction



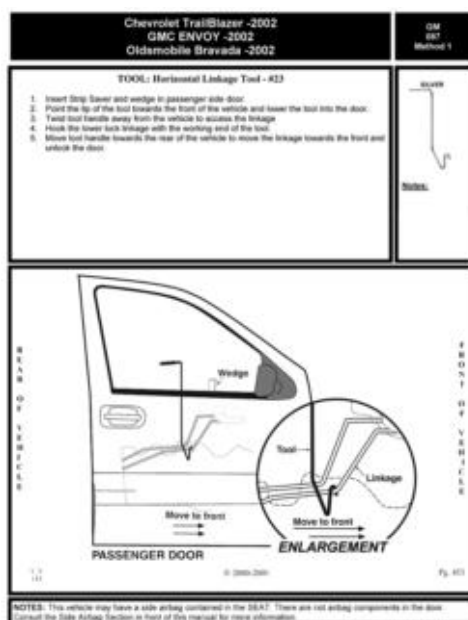
D&D Technologies

Hi-Performance Hardware



7731 Woodwind Drive, Huntington Beach, CA 92647 Tel: (800) 716-0888 Fax: (800) 464-6400 E-mail: info@ddtechusa.com Web: www.ddtechglobal.com

Circle 211 on Rapid Reply



kits, but unlike others they recommend them solely for emergency uses or on some vehicles where there is no other option. That is because on certain vehicles there is an inherent risk of causing damage.

The metal tools in the High Tech Tools set are made out of high carbon steel that allows them to be flexible while retaining their own shape. Remember, with High Tech's sets, you have an industry leading lifetime guarantee on all metal tools, where as long as you keep your set updated, your tools are guaranteed against loss, theft, or damage, whether it be a defect in manufacturing or negligence by an employee, a relief for owners that provide their employees with their sets. You are able to replace up to 6 a year and up to 3 at a time, all for a nominal shipping fee.

High Tech Tools also has a 30 day money back guarantee on everything they sell, so if you are

not satisfied with something, return it for a complete refund, even on shipping and handling. They are able to provide this because they know that when you actually use the set, you are going to be completely satisfied.

For any questions or comments, please feel free to contact High Tech Tools and (800) 323-8324 or visit our website at www.hightechtools.com. Circle 257 on Rapid Reply.

HPC Stretch Killer™

Opening the 2005 Ford Focus

The Ford Focus is a very popular compact car. For the 2005 model year, it is available in 4 body styles: ZX3 3-door hatchback, ZX4 4-door sedan, ZX5 5-door hatchback, and ZXW wagon.

The Focus uses a PATS III Encrypted transponder key (Strattec part number 691643). Programming new keys requires

the use of the Ford NGS (New Generation Star) diagnostic tool or other programming device. On-board programming is possible if 2 working keys are available. The locks are coded using series 1X-1706X; use card number CX101 and the CW-1011 cutter on your HPC Blitz™ Machine to cut the keys.

Side impact air bags are available as an option on the Focus. The air bag is located in the seat-back and the sensor is located in the lower pillar.

While it has been redesigned for 2005, the opening technique is the same for all models since its introduction in 2000. The photographs are of the ZX4 Sedan.

As detailed in the HPC Interactive Car Opening Authority®, the preferred opening technique is the UO-1 Under & Over Method. The best tool to use is the HPC Stretch Killer™ (No. CO-61). This tool has the most universal dimensions of the 4 Under & Over car-opening tools produced by HPC. It has a higher arc and the operating end sits lower to reach locks that are deeper on the door panel.



To open the Ford Focus:

1. Insert 2 of the HPC 3/8-inch Ultimate Auto Wedges (No. AW-38) between the glass and the weather stripping, 8 to 10 inches apart, on the passenger door.

2. Insert the Under & Over Tool between the 2 wedges. The tool must be lowered into the door far enough to pass the bottom of the window, typically 2 to 3 inches below the top of the door, (see photo 2).



Photo 2.



Photo 3.



Photo 4.

3. Turn the handle of the tool clockwise (inward, toward the car) to move the arc under the bottom of the window.

4. Remove the 2 wedges to take pressure off the window.

5. Pull up on the tool so the operating end enters the inside of the car, (see photo 3).

6. If the car is equipped with power door locks, position the end of the tool to activate the button. For manual locks, position the end inside the lock button and twist to unlock the door, (see photo 4).

Once the door is open, to remove the tool:

1. Insert the 2 wedges on the inside of the car and lower the tool down inside the door.

2. Remove the wedges from inside the car, and insert them on the outside.

3. Turn the handle of the tool slightly, maneuvering it under the window

4. Slowly pull the tool up out of the door. The tool should come out the same way it entered. That is, if the hook was toward the rear of the car, it should also be removed with the hook toward the rear.

For more information on this opening technique, please refer to the HPC Car Opening Authority® in print (No. COA-22) or on CD-ROM (No. COA-CD). For more information on all HPC products, please contact your Authorized HPC Distributor or visit www.hpcworld.com. Circle 258 on Rapid Reply.

Lockmasters Inc.

Opening the Kia Amanti

The Kia Amanti is aimed squarely at those who have champagne tastes and a beer budget, (photograph 1). From a distance it is easily confused with a Mercedes. Once inside, you see lots of what appears to be leather



Photograph 1.

and fake wood. Even the high security keys practically scream "Luxury Car." But as soon as you hit the road, there is no escaping the fact that you're driving a Kia. Despite this, the cars are selling well and if you haven't had to unlock one yet, it's only a matter of time until you will.

The Kia Amanti is tough to unlock if you are not familiar with it. The high security locks are the same as those found on older Lexus products and they are extremely difficult to pick. The lock linkages inside the door are cable systems that prohibit the use of traditional tools that go inside the doors.

In addition, the window regulator mechanisms on both the front and rear doors are built so that they will trap any under-window tool that is inserted into the door. If you try using an under-window tool, it will slide in easily, but once it's about half way into position, it will become hooked onto the window regulator and stop dead. If that happens, it's almost impossible to get it out again without breaking the window.

The solution is to use the original Jiffy-Jak Vehicle Entry System to unlock the Amanti, (photograph 2). Introduced in 1999, the Jiffy-Jak started a revolution in car-opening tools that spawned a flood of look-alike tools. The engineering of the Jiffy-Jak is unsurpassed and backed by a 90-day "no questions asked" money-back guarantee and a lifetime warranty against breakage.

To unlock the Amanti, begin by inserting the tip of the main

door jack lever into the gap between the front and rear doors, (*photograph 3*). When the tip is in place, slide the rubber-backed base plate into position so that the groove in the plate locks into the heel of the main door jack. The base plate spreads the force out evenly over a large area,



Photograph 2.



Photograph 3.



Photograph 4.



Photograph 5.

which prevents damage to the door. Using the base plate is extremely important on the Amanti because of the relatively thin metal used on the trim around the windows.

Apply pressure to the main door jack to lever open a gap between the rear edge of the front door and the doorframe, and then insert the air wedge into the door. Once the air wedge is fully inserted, pump it up to widen the gap. When the gap is wide enough to work with, the main door jack lever can be removed. (An improved version of the Tech-Train air wedge has just been introduced that has rounded corners and a stiffener inside. This new air wedge is much easier to insert than the old one and costs the same as the original.)

Because of the thickness of the door on the Amanti, you will only be able to open a small gap into the passenger compartment. In order to work with the smaller gap, remove the rubber tip from the end of the rod and then cover the threads with duct tape to prevent scratching. Next, slip the finish protector sleeve over the rod and slide the rod and the sleeve into the gap between the door and the frame together, (*photograph 4*). The finish protector sleeve protects the finish of the car from the car-opening rod.

Using the adjustable handle on the rod to manipulate the tool, bring the tip of the rod into position to unlock the door.

You actually have three different choices on how to unlock the car once you get the tool into position. Two of these choices are shown in, (*photograph 5*).

1. Attack the inside lock control rocker.
2. Attack the power door lock control.
3. Pull the inside handle on the driver's side door.

Using the Jiffy-Jak system allows you to unlock these popular vehicles quickly and easily without the risk of getting your tool stuck in the door.

For more information on the Jiffy-Jak contact Lockmasters, Inc. at (800) 654-0637 or on the web at www.lockmasters.com or www.techtrainproductions.com. Circle 259 on Rapid Reply.

Lock Technology

Grand Master Pick Set

The LT-620 Grand Master Lock Pick Set contains 37 pieces and is the ultimate pick set available today. The LT-620 includes: 6-piece import rocker set, 12-piece pick set for GM vehicles, 5-piece Ford automotive rocker pick set, 6-piece set for wafer locks on import vehicles with a harpoon pick for removing broken keys, a tweezers type universal lock turning tension wrench, and a gas cap pick tool.

It includes instructions and is packaged in a custom carrying case.



Continued on page 56

RESTORE KEY CONTROL A-Q AND MAINTAIN YOUR CURRENT KEY SYSTEM EVEN IN THE BEST BUILDINGS.



CORPORATE OFFICE KEY CONTROL RESTORED AFTER BOARD INDICTED.

Cho/Ce Plus IC Cores easily integrate into any existing key system using A-Q keyways. Conveniently restore key control over time or all at once using the same bittings.

TRADING FLOOR SECURITY UPGRADED.

Cho/Ce Plus Keys operate A-Q keyways in an existing system – but original keys will not operate Cho/Ce Plus A-Q key controlled IC cores.

LAW OFFICES MAINTAIN KEY SYSTEM.

Cho/Ce Plus IC Cores pin the same as existing A-Q IC cores providing convenient and effective key control restoration within any facility.

There's only one patented interchangeable core that integrates with existing key systems having A through Q keyways, upgrades security and affords authorized key control – The Cho/Ce Plus interchangeable core system. Cho/Ce Plus offers convenience and security, making even the best key system better!



Aim higher

325 Duffy Avenue, Hicksville, New York 11801
Phone 516.704.2700 • Fax 877.228.6480
www.arrowlock.com



Opening the 2004-05 Pontiac GTO Coupe

The 2004 Pontiac GTO Coupe is a new version of an old model car, (*see photograph 1*). GTO stands for “Gran Turismo Omologato”, the English translation of which is “Grand Touring Homologated”, a fancy way of saying that it was approved for certain classes of international sports car racing. Jokesters of the old model claimed that GTO stood for Gas, Tires and Oils, all of which the Pontiac used in large quantities.

Proud owners and fans of the old model fondly and proudly refer to theirs as “GOATS” and label their meetings as a “Gathering of the Goats”. The Pontiac GTO, known as “The Legend” and “The Great One” is the car that actually started the muscle car era. Pontiac production of the GTO from 1964 to 1974, nearly reached 700,000 GTO’s sold. Following a three-decade absence from the market-



Photograph 1.



Photograph 2.

place, the legendary GTO makes a comeback as a late 2004 model.

This new version is drastically different from the latest version made way back in 1974. The GTO is based on the rear-wheel drive Australian built Holden Monaro performance coupe. It is built by GM subsidiary-Holden in Australia.

You could think of the 2004 GTO as a pony car - a more sophisticated replacement for the Firebird, or a merciless Mustang slayer, or a competitor for Japanese performance coupes such as the Infiniti G35. According to the many GTO faithful, there is some debate about what this car is: Has it earned the right to wear the badge, or is it just a marketing exercise engineered to cash in on it? Outwardly, the car seems pretty tame. Even after serious rhino plasty, the GTO looks very ten years ago, sharing its pod like jellybean shape with that of the old Cadillac Catera made from 1997 - 2001. The new GTO has clean lines and nowhere on the body does it even say the word Pontiac. The only badging is the Pontiac spear, GTO/5.7 badges on the back, and the classic GTO checkerboard on the front fenders. The 2004 model is scoopless, much to my disappointment. But the Pontiac design team corrected that on the 2005

model. They added hood scoops, dual chrome-tipped exhausts and deck lid spoilers as no cost options.

The linkage type on the 2004 and 2005 GTO is vertical. The door locks are on the driver side doors only. The pick direction is counter-clockwise.

PRO-LOK's Preferred Opening Procedure for the 2004 & 2005 Pontiac GTO Coupe is as follows:

1. Insert an AO65 Pump Wedge at 9” from the rear edge of the window glass of the front passenger door. Inflate the wedge to ease insertion of the car opening tool.
2. Insert an inspection light into the door cavity at 8” from the rear edge of the window glass and identify the vertical rod connected to the inside door lock button located at 3” from the rear edge of the window glass.
3. Insert the “Hook end” of and AO07 Astro Tool at 3” from the rear edge of the window glass with the tip of the tool facing rearward, (*see photograph 2*).
4. Lower the AO07 tool 9-1/2” into the door cavity.
5. Rotate the tool 45° clockwise to work the tool into position behind the vertical rod.
6. Twist the tool to bind it onto the vertical rod.
7. Lift the vertical rod to unlock the door, (*see photograph 3*).



Photograph 3.

Slide Lock Tool Co.

Opening the 2005 Honda Odyssey

The 2005 Odyssey is one of many new models, which have vertical lock buttons that are shielded from manipulation by in-the-door tools. This vehicle utilizes shielding and cables to avoid easy access and manipulation. This makes the vehicle more secure, but it also makes it harder on the lock out technician.

Examples of new models that have similar type opening procedures are the new Pontiac G6, Pontiac Grand Prix, and the New Chevy Cobalt 2 door. Of this group, the 2005 Honda Odyssey is the more complex procedure. The Odyssey will be our example vehicle for this article.

First, a special note on many of the newer models: The auto makers are using a specialized rubber coating on the door edges and on the door posts. Most wedges including the Flex-A-Wedge that we offer with the Z-Tool System will leave an impression or mar these coatings.

Be sure that you do not use any wedges on these finishes.

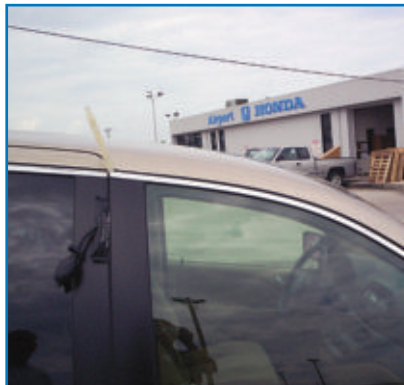
Also, it is a good idea to have your hold harmless release form signed by the customer, as someone else may have attempted the opening prior to your involvement.

1. Insert Flex-A-Wedge at the top left corner of the passenger door avoiding the rubber coating on door post. This will ease insertion of the air wedge.

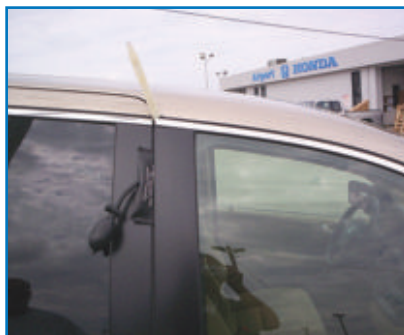
2. Just below the Flex-A-Wedge, insert air wedge at "position A" which is shown on page 24B of the 2005 Z-Tool System manual. Inflate air wedge: Note you may now remove the Flex-A-Wedge.

3. Insert the Z-Tool System Mercedes Strip as seen on Page 27B of the 2005 Z-Tool System manual. Slide Mercedes strip

down the door to the lock button using the string to secure the tool around the lock button. The 05 Honda Odyssey lock button has a grip grid on it so the string will lock around it. It is not necessary to use the banded end of the tool.



Photograph 1.



Photograph 2.



Photograph 3.



Photograph 4.



2005 Pacific Locksmith Conference & PURE Auto

**October 11-15
2005
Portland, Oregon**

- **Classes**
- **Seminars**
- **PRP**

**Holiday Inn
at the Airport**

Some classes offered...

- Basic Locksmithing
- Investigative Locksmithing
 - Life Safety
 - Auto Classes
 - Safe Servicing and more!

**Hosted by
Pacific
Locksmith
Association**

Visit the PLA website
for class schedules,
registration, class
description and costs
www.pla-pro.org

**or
Bill Botek
(503) 644-9881**

4. Secure string, lift button to unlock door.

5. Check lock system to make sure everything is in working order. Now you are done. As usual the Z-Tool System has made even the most difficult car openings as easy as 1-2-Z.

Now it's time to check your kit and make sure it is up to date with the 2005 manual, the Slim Wedge Shield and the new extension for the long reach tool. As a bonus, you will receive with your 2005 manual, a mid year update code for use on our website (www.z-tool.com).

The mid year update is available now so don't delay, get up to date.

For more information contact: Slide Lock Tool Co. Inc.; Phone: 800-336-8812 or 865-577-8470; Fax: 865-577-5936; Web: www.z-tool.com. Circle 262 on Rapid Reply.

Steck Manufacturing

BigEasy Lock Out Kit

Over the last 6-years Steck Manufacturing's BigEasy Lockout Tool Kits, BigEasy "Glo" and Classic is one tool that is quickly becoming the tool of choice for locksmiths. Steck Manufacturing has released a new version of our BigEasy kit, Public Safety BigEasy kit #32911 with a blue stick and a "Glo" tip to the locksmith. As with our other kits, it is simple to use by first inserting the plastic wedge and/or our inflatable Easy Wedge into the top of the door to allow



Steck Public Safety BigEasy kit #32911.



Steck Paint Protector.

enough room to insert the BigEasy tool into the door opening to reach the door lock from inside the window rather than using the door panel.

All kits now include our Paint Protector free of charge. The Paint Protector slides between our BigEasy and the car door weather-stripping to protect both the car and the BigEasy as the tool is being used. Quick and easy to use, in most cases within 60 seconds the door is open.

The BigEasy opens doors from inside the window and reduces liability issues with traditional lockout tools, which have the potential to disable wiring systems inside the door panel. One BigEasy tool opens domestic or foreign built cars so no need to carry manuals and multiple car door unlocking tools.

The Big Easy Kit #32911 consists of the blue BigEasy tool with a glow in the dark tip, non-marring wedge, lock knob lifter and the popular inflatable Easy Wedge.

Kits are available at most supply dealers.

Further information and CD videos are available by contacting Steck Manufacturing at Sales@steckmfg.com or calling 1-800-227-8325. Check our website for a complete listing of all our products www.steckmfg.com. Circle 263 on Rapid Reply. **TNL**

SCHLAGE • WEISER • ARROW • CAL-ROYAL • KWIKSET • DEXTER

• LCN • VON DUPRIN • FORT • LAB • MONARCH • MASTER • IVES •

ONE CALL WILL GET YOU THIS AND MORE!!

1-800-848-1577

NOW IN STOCK

ACCENTS™
Twisted Beauty

AVAILABLE AT:

ZIPF LOCK COMPANY

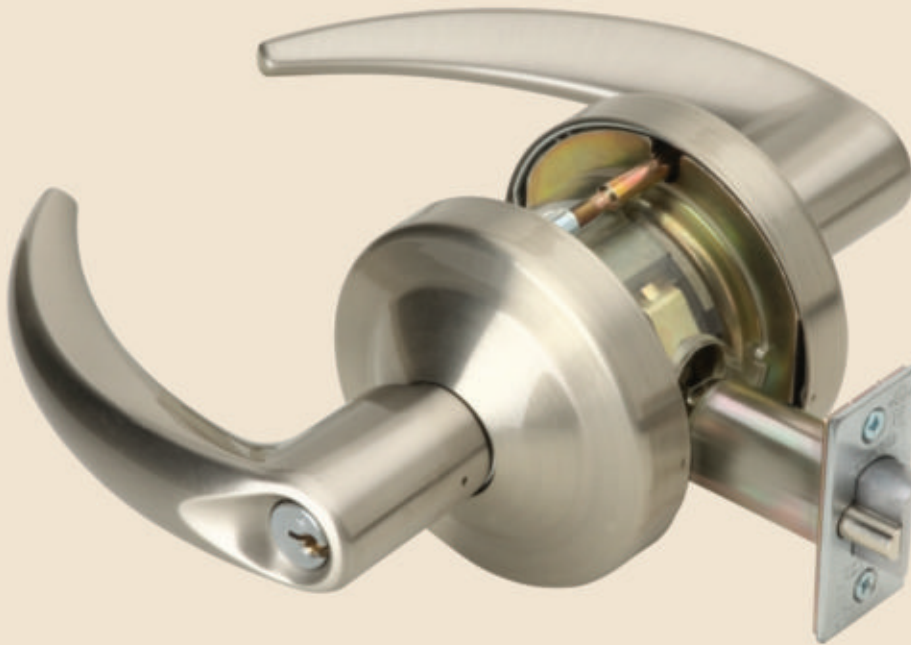
P.O. BOX 935 COLUMBUS, OHIO 43223

1-800-848-1577 (Nationwide) 1-800-228-6320 ZipFAX®

CHICAGO • NATIONAL CABINET • TIMBERLINE • DETEX • HPC

• LOCKNETICS • DON-JO • ILCO • HES • KRYPTONITE • PRO-LOK •

YOU CAN'T AFFORD THE COMPETITION.



SCHLAGE SETS A NEW STANDARD IN ACCESS CONTROL AND KEY SYSTEMS MANAGEMENT.

Introducing the revolutionary new Grade 1 D-Lock—engineered for amazing strength, greater durability and unsurpassed value. Its heavy steel construction plus fewer component parts result in less wear and tear, and easier, accurate installation—**UNDER TWO MINUTES!** D-Lock exceeds all ANSI standards and includes our Vandlgard® declutching lever for maximum protection from vandalism and forced entry. Schlage. Often imitated. Never duplicated.



Schlage's selection of key systems provides the optimal flexibility in key control and affordability.

To learn more about Everest™ Primus, our new Grade 1 D-Lock and Sitemaster™ management software, visit irsecurityandsafety.com or call 1-877-840-3621 to contact one of our 22 Security & Safety Consultant™ offices.

Inquire to see if you qualify for our no-obligation Security & Safety Needs Assessment.



IR Security & Safety
Proven Source. Proven Solutions.™

An **IR** Ingersoll Rand business

© 2005 Ingersoll Rand

C BEGINNER'S CORNER



by
Ken Holmlund

Rekeying A Nissan Trunk Lock

While the majority of the vehicle work I do in Eastern Montana involves Ford, Chevrolet or Chrysler vehicles, I do get a smattering of vehicles with foreign sounding names. Such is the case I would like to cover this month.

The call came from a local body shop. They were restoring a Nissan that had been in an accident and had gotten a used trunk lock to replace the one damaged beyond repair. They would like the lock to be keyed to the same key as the rest of the vehicle. Sounded like an appropriate thing to do, so I agreed.

The lock they brought me is seen in *photograph 1*. It came complete with a working key, which is a kind of different scenario from those I usually get from body shops. For a considerable time I had been mulling over getting a tool made especially for removing and replacing the facecaps on vehicle locks such as this. That tool is the Gator Tool, (*see photograph 2*).

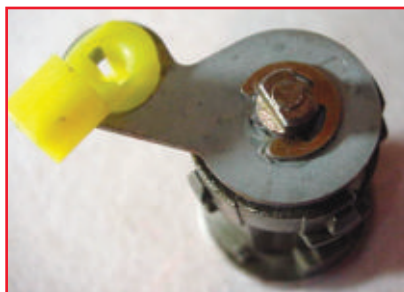
I have had numerous conversations with Steve Cormier at Gator Tool and have even had the tool in my hand at various trade shows, but I could not convince myself I wanted to spend that kind of money on a tool I felt I would not use enough to justify the cost. Boy was I wrong. Without the Gator tool, I would



1. A Nissan trunk lock.



2. The Gator Tool.



3. The back of the lock.



4. The return spring.

not have been able to do the job in a professional manner and that is important to me. My reputation is my most important asset.

Since I got the lock already removed from the vehicle, I don't have pictures of the steps needed to get the lock off the trunk. Typically, it is a very straightforward process requiring little in the way of improvising, but may require some study of the parts you need to remove to get to the lock. Don't get carried away with prying or forcing anything and you should be just fine.

Let's take a look at the steps needed to take the lock apart. The back of the lock is covered by a pawl, (*see photograph 3*). A small C-clip holds the pawl on the back of the lock. Simply slip it off with a small screwdriver, being careful to cover its direction of escape with your hand or you may be looking for that C-clip for quite a while. This is said from experience since the clips tend to shoot off the post and disappear into a vast caver. Having a good selection of replacement C-clips is not a bad idea and will save you time.

With the pawl removed, the return spring is readily seen in *photograph 4*. The spring is basically the same as the ones used by GM on their trunk locks and is

What are you looking for in Key Storage?

Capacity?

HPC KeKabs range in capacity from as few as 8 keys to as many as 730 keys.



Expandability?

Many of HPC's KeKabs take expansion leaves so your storage capabilities can grow as your needs increase.



Shape?

HPC offers specialty KeKabs to fit in spaces where others cannot.



Security?

HPC offers KeKabs with flat key and tubular key cam locks, T-Handle locks, dial and digital combination locks, and locks that accept mortise cylinders to meet all of your security needs.



Functionality?

HPC offers a complete line of Single-Tag KeKabs, Two-Tag KeKabs, and specialty software for keeping track of keys.



Convenience?

HPC's line of Key Keepers gives you on site storage of keys where you need them.



KeKab® is a registered trademark of HPC, Inc.
Visit HPC's website at www.hpcworld.com for more information.



HPC, Inc.
3999 N. 25th Avenue
Schiller Park, IL 60176 USA
Tel: 847.671.6280
Fax: 847.671.6343
www.hpcworld.com

removed the same way. Push one leg of the spring past its post and carefully release the tension on the spring until it is at rest. Lift the spring out of the casing and place it in a safe and secure location. A couple of more words from experience here. Do not let the spring release totally uncontrolled or you may be digging it out of your finger, and do not place the spring where it will get knocked off your workbench while working on the lock. They may end up in the same location as the C-clip and they are harder to replace. *Photograph 5*, is the spring after it has been removed from the casing.

Now comes the tricky part of the job. How do I take the facecap off without damaging it beyond repair? Since I do not have an exact replacement facecap, I will need to use it again. I have tried several methods to remove facecaps in the past. They include using a Dremel Tool to cut small slits in the back edge of the cap and attempting to peel the cap back without leaving an impression on the face of the cap. Some people may be experts in doing this, but I cannot include this as one of my major success stories. I just could not make the finished job look like I knew what I was doing and I was not happy with it.

I have tried using a small screwdriver to peel the cap, but the thing I was most successful at doing when I tried that methods was to peel back a few layers of skin on my finger. I did not accomplish the intended goal and I had a hole in my finger that was at the most sensitive location imaginable, and the bleeding was not a good or sanitary result either.

I have tried using a tool made for the removal of GM caps without much success, and using a cap that was close to the



5. The spring after it has been removed.



6. Begin the removal of the facecap.

original did not give satisfactory results either. Fortunately, I had received my Gator Tool about a week before I got the Nissan lock and it was time to put it to the test.

Steve includes a rather extensive set of instructions with the Gator Tool, including cautions, nomenclature and blown up pictures of critical parts of the tool. Although it is not a complicated tool, knowing what it can do will take a little understanding of the parts of the tool and a little experience will help as well.

The first caution is to take it easy and careful when you start. My tendency is to use a tool and then read the directions, but that is not a good method with this tool. It can do so much that you need to know how to make it do just what you want done and the instructions give you that information.

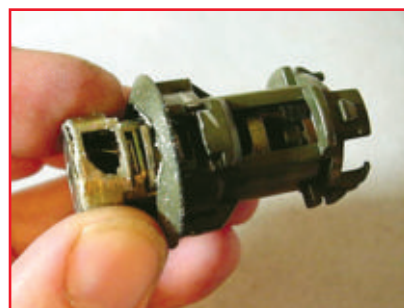
Photograph 6, shows the tool in place to begin the removing of the facecap. To begin the removal process first get the tool started by placing downward pressure on the tool so the tip wedges itself under



7. Squeezing the handle causing the cap edge to roll.



8. The cap will come off with little distortion.



9. The plug of the lock.

the edge of the cap. Now apply slight pressure by squeezing the handle causing the cap edge to roll, (*see photograph 7*). Do not lift it too quickly as you do not want it to tear or rip. After the first lift, move the tool about $\frac{1}{2}$ of its width or approximately $\frac{1}{8}$ " and lift carefully again. Continue repeating the lifting and moving until you have circled the cap. If it does not lift off, then repeat the process again, carefully lifting a little more metal. The cap will come off with little distortion on the face of the cap, (*see photograph 8*).

The plug of the lock will now come out in your hand, (*see photograph 9*). *Photograph 10*, shows the plug without a key inserted and *photograph 11* is the plug with the key we want to



10. The plug without a key inserted.



12. Gator Tools has another tool for the removal of the wafers.



14. Squeeze the Wafer Popper.



11. The plug with the key inserted.



13. Place the tip of the tool against the wafer.

work inserted. In both cases the wafers are visible so the plug could not turn. The reason for inserting the key we want to work is to determine if any of the wafers happen to be correct and will not need removing.

It is possible to drive the wafers out by placing a small screwdriver against them and striking it with a hammer, but that often results in bent wafers and more often than not will cause another hole to appear in your

hand. Gator Tools has another tool for the removal of the wafers, (see *photograph 12*). He calls it a Wafer Popper and that is exactly what it does. Place the tip of the tool, see *photograph 13*, against the wafer and squeeze, (see *photograph 14*). The wafer will be removed and can be used again. *Photograph 15*, shows the lock rekeyed to the new key with all the wafers at the sheer line.

Now for the best part of the Gator Tool. You can put the cap back in place and have a professional looking job to give to your customer. First adjust the

FASTRACK

Hardware Inc.



Koala Corporation
Manufacturers of child
care products

Yale®



Norton®
Powermatic Door Controls



Alarm Lock Systems Inc

LCN®

Same Day Shipping

KROY®
ADA Regulatory Signs

1-800-458-8707 Fax 800-667-8701

**We accept Visa, Mastercard
and American Express**

Email: sales@fastrackhardware.com
www.fastrackhardware.com



holding unit by placing the lock face down into the support shelf and adjusting the screw so that the lock rests against and under the screw, (see photograph 16). Adjust the crimping unit in the same manner with the crimping unit slightly lower than the edge of the face cap, (see photograph 17). When the adjustment is completed, place pressure on the handle and roll the metal back in place behind the body of the lock. Continue around the lock until the entire cap is in

place. Keep an eye on the crimping screw as it may loosen during the process and may result in needing to circle the cap again to get it tight.

One other benefit of the Gator Tool is that it incorporates a staking tool to seat the caps on GM plugs, or to re-crimp the face caps of many newer types of lock, (see photograph 18).

As you can see, the Gator Tool made a possibly difficult job much easier and will continue to do so for years to come. Had I known



15. Shows the lock rekeyed to the new key.



16. Adjusting the screw so that the lock rests against and under the screw.



17. Adjust the crimping unit slightly lower than the edge of the face cap.



18. A staking tool to seat the caps on GM plugs.

what this tool could do, I most assuredly would have had one long ago. Having the tool to do the job is an investment, not an expense.

The Gator Tool and the Wafer Popper are available from most distributors or you can contact Gator Tool for more information at:


Gator Tool Company

5030 Filarees Circle
Colorado Springs, CO 80917

Phone Number: 719-591-8343

Fax Number: 719-550-0953

Email: stevec@gatortool.com

Website: www.gatortool.com 

EXTREME PRECISION

Introducing the New & Improved Drill Doctor

The **NEW Drill Doctor X Models** are everything locksmiths have dreamed of in a drill bit sharpener—fast, easy to use, and extremely precise. Your work demands sharp bits. Demand the NEW Drill Doctor to help you keep 'em that way.

Ideal for locksmiths!

- ✕ **NEW!** Sharpens standard-twist bits from 3/32" - 3/4" with a single, convenient chuck
- ✕ Sharpens high-speed steel, masonry, carbide, cobalt, TiN-coated, and split-point bits
- ✕ **NEW!** Variable Alignment lets you adjust chisel and relief angles
- ✕ **NEW!** Durable, metal split-point port and guides reduce oversplitting
- ✕ **NEW!** Custom Point lets you adjust point angle from 115° to 140°
- ✕ **NEW!** Adjustable Material Take-Off lets you set amount of material removed based how heavily damaged your bit is
- ✕ **NEW!** Quick Change diamond sharpening wheel, no tools needed

(Features apply to Model 750X—top-of-the-line pro model)



Drill Doctor's NEW X MODELS

OVER 2 MILLION SOLD

Drill Doctor
The Drill Bit Sharpener

Look for the Drill Doctor at Sears, Home Depot, Lowes, Ace, Northern Tool, Grainger, and wherever you buy your tools.

Full 3 YEAR WARRANTY

1-888-MYDRILL (693-7455) • www.DrillDoctor.com

Yale®

ELECTRONIC BATTERY OPERATED SECURITY SOLUTION

eBOSS™

The eBOSS electronic lockset is designed to provide the industrial, commercial, residential and hospitality marketplace with reliable and moderately priced keyless entry with mechanical key override in interior or exterior environments •



ASSA ABLOY

Distributed by



MIDWEST WHOLESALE HARDWARE

Visalia, CA
888 707 8527

Kansas City, MO
800 821 8527

Orlando, FL
800 659 8527

m i d w e s t w h o l e s a l e . c o m

Circle 238 on Rapid Reply

© 2005 MIDWEST WHOLESALE HARDWARE

THE Lighter SIDE

Wally, Wally Is Free



A couple of times a year, some locksmith who's been reading my articles through the years will ask me, *"Whatever happened to that guy, Wally, you used to have working for you?"* Let me assure you, Wally is alive and well. He's "handled" more telemarketers than you can imagine through the years, and has freed us to do our work with a minimum of unwelcome telephone interruptions.

For those of you who don't know what I'm talking about, we used to be plagued with a multitude of telemarketers calling us on the phone at all hours, trying to sell us anything and everything from light bulbs to bigger and better insurance policies. I guess every business has to contend with this to some degree, but we seemed to be getting more than our share.

"Is the owner in?" is the way most such calls begin. When we hear those words, we figure it's either a sales pitch or a lawsuit about to happen, and if Don or I acknowledge that we're one of the owners, you can be sure the caller will dive into some sort of razzle-dazzle jive about how's business or the weather or some other "personal" comments that will ultimately lead to their sales pitch.

I don't know about you, but we don't have time at our shop for this kind of two- to ten-minute (or

more!) unsolicited, unprofitable interruption several times a day, especially when the product being offered is something we have no use for.

Enter Wally.

After trying such techniques as abruptly saying, *"What are you selling?"* and forcing them straight to the point, to saying, *"Could you hold, please?"* and laying the phone down until they hang up—after all, time is money to them, and to you as well, though the caller rarely considers the latter—we even tried telling them we didn't make purchases over the phone, but if they'd mail a brochure, we'd consider their product. Still, they didn't take the hint.

Quite by accident, Don hit upon a solution one day, and Wally was born.

"I'm really not the person you need to talk to," I heard him say.

I braced myself, expecting him to turn a complaint of some kind over to me.

Then I heard him add, *"Wally's your man."*

Wally? Wally who? I'd never heard Don mention anyone by that name, before.

"Wally handles all our telephone orders," Don added.

Since when? I know Don sometimes thinks I'm "out to

lunch," but how could I have missed out on a whole new employee?

"No, he's not in right now, but if you'll call back in a couple of hours...Just ask for Wally. Right."

I'll never forget the ludicrous smile on Don's face as he hung up the phone and two-stepped gleefully into my office, announcing with a chuckle, *"From now on, whenever an unsolicited salesperson calls, just refer them to Wally."*

"Wally who?" I asked.

"He doesn't need a last name. Nobody uses them any more anyhow. Anyone who calls asking for Wally has to be a salesperson we've already talked to or one of their referrals. We just keep telling them Wally's out, and after a while, they'll give up and leave us alone."

We were surprised to observe, over the following weeks, just how popular Wally was, and how short the calls for him remained, since he was never in. Then something surprising happened. We began to receive "junk mail" addressed to "Wally Al Lockey," obviously some computer's misinterpretation of "Wally, A-1 Lock & Key." It seemed the name had gotten on somebody's mail and phone lists that were being sold to other marketers. Next, a couple of applications for major credit cards came in for him. Don was tempted to apply for one, just

to see what would happen, after all, we had recently received the same kind of "You have been approved..." notice addressed to Samantha Probasco, our 125 pound Rotweiler!

Things soon settled down to fewer and fewer calls for Wally. As business increased, we decided it was time to take on a new part-time employee. I was traveling around the country conducting my "Business of Locksmithing" seminars at the time, while Don was interviewing prospects.

Upon my return, I asked about the applicants, and Don mentioned one that had seemed promising. He was a bright, eager young man with good references and a nice personality. Furthermore, he'd expressed a willingness to start at a low salary until he'd learned enough to pull his own weight around the store. He sounded like exactly the kind of person we'd been looking for.

"When does he start?" I asked.

Don hesitated. "There's a slight problem. The guy's name is Wally!" Don explained.

Actually, Wallace was the applicant's middle name, so it didn't keep him from being hired, but it was a source of humor around the store for a while.

We don't have much work for the original Wally any more. I guess word got around in whatever circles such things travel that Wally was a tough nut to crack. Once in a while someone new will call, trying to sell us a sky-hook or a left-handed wrench, but for the most part, our imaginary Wally gets to kick back and relax. We think he's earned some time off.

However, if he can be helpful to you in your business, you may feel free to use his name. **RL**

A Cut Above...




No matter what kind of van you have - Adrian Steel Locksmith Packages are a cut above the rest. More storage area. More work area. More isle space. It's almost like bringing your shop along wherever you go. For more information or a local distributor, call **1-800-677-2726**, or visit us on the web at **www.adriansteel.com**.



ADRIAN STEEL

**Commercial Van
and Pickup Equipment**

Circle 203 on Rapid Reply

Experience the difference

1770	1820	1963	1982	1988	Today
Prospero Bianchi began producing wrought iron keys	Prospero created the first key catalog, which was printed throughout Europe	Camello Bianchi started a mass key & key machine production facility	The Bianchi family launches key machines in North America	Massimo Bianchi took over the business and created the first electronic code cutting machine	Bianchi USA continues the tradition in North America

of over 235 years of Italian quality and craftsmanship.







BIANCHI
USA, Inc.

Call **1.800.891.2118** or visit
www.bianchi1770usa.com to learn more
about our precision key cutting solutions.

Circle 207 on Rapid Reply



SCHWAB[®]

Media Safe Repair



by Dale W. Libby, CMS

For 120 years, Schwab has helped protect businesses with fire-safe production and is now leading record protection into the 21st century with a revolutionary cabinet line. The cabinet I will repair in this article is the largest media cabinet Schwab offers, the 1856CTS, (*see photograph 1*). This unit is located in the corporate office of *The National Locksmith* magazine. What this really means is that I fixed the cabinet for free and got the advantage of writing an article about it. The issue with this particular cabinet was that the

handle was starting to break. I have seen this problem before.

The first time I encountered this handle breakage was at a large office complex that also used such a media safe. I have worked on their fire containers in the past with no problems. This media container incorporates a large rubber gasket that makes the door rather hard to open and close. You have to really work to get the safe door open and then to get it fully closed each time you use the

unit. This I believe put undue stress on the handle and eventually it broke.

Before I could look at this safe, the gate guard said that I would have to have insurance papers with their company's name on it and my company name. They gave me a list of all the tools that I could and could not bring into the facility when I came to work on the unit, and a list of acceptable clothing and eye protection that I had to use. This booklet was 12-pages long with small print. This was an office complex, not a factory.

Continued on page 70



1. The Schwab 1856CTS Media Safe.



2. Schwab 1856CTS Media Cabinet with access door open.



3. Marc's shot of Greg shooting Dale starting work on cabinet.



KeylessRide

**The locksmith source for
keyless entry remotes.**

Circle 255 on Rapid Reply

toll free 1.877.619.3136
www.keylessride.com/locksmiths

Come take a peek

© 2005 KeylessRide. All rights reserved. All other trademarks are the property of their respective owners.



4. Inside door with rubber gasket around all sides.



5. Front view showing storage capacity of Media.



6. Pull back gasket to expose Robertson square head screw.



7. Panel removed showing 3 active locking bolts.



8. Medeco cam lock secures handle in locked position.



9. Open cam lock allows handle to pull bolts into the door.

I finally managed to convince the guards that I would only be in the facility for 2 minutes to estimate the job and see what I would have to do. Finally they gave in and let me walk down the hall and look into their secure room. I was out in less than 1 minute. It was a Schwab Media File with a broken handle. I informed my contact that I would do the job if they bought the new handle and rescinded all the regulations concerning my tools and me. They never called back.

Let us now fast forward to this unit at *The National Locksmith*. Their dress code was a little different, as you will see.

Photograph 2, shows the large Schwab 1856CTS media safe. The outside access door is shown open to expose the handle and key lock. While paper records can withstand temperatures to 350°F, computer media is damaged beyond use at temperatures above 125°F and 80% humidity. Microfiche, film, and computer media require added protection

that this cabinet offers. This particular safe was customized by using a Medeco key cam lock to secure the handle in the down, locked position. Other options for locking this unit include an optional dial combination lock, an optional digital combination lock and key lock, a digital combination lock by itself, or a dial combination (mechanical) and key lock. All levels of opening custody are addressed with these selections.

Now, for a “before” trophy shot. *Photograph 3*, is a picture taken by

Marc Goldberg, of Greg Mango taking a picture of Me (ahem) posing before the broken handled media safe. One of the benefits of working with your friends is that they all like to heckle me and give me sage advice when working. The dress code is relaxed and the working environment is air-conditioned. Both big plusses when doing any safe work.

The inside of the media safe door is large and plain, (see *photograph 4*). There is a little black plastic screw above the middle of the door near the opening edge. Consensus was that if the door were equipped with a key change mechanical combination lock, this would be the position that you

would insert the change key. There is a large foam insert under this door as large as the door. It is taped to the inside of the inner door. The other feature that this photograph shows is the large, thick, unyielding rubber gasket that surrounds the edge of the door. This gasket gives the humidity protection that the media needs. It also causes the tight fit of the door to the media safe body.

Schwab offers a large selection of medial interiors including adjustable shelves, medial trays and tape hangers and different sized special media trays and drawers. Apparently *The National Locksmith* has opted for the most space available and just stacked the back up media from bottom to top. *Photograph 5*, shows the real inside of the media cabinet as is used everyday at the magazine.

Let us get to the repair. It is fairly fast and clean, and the only special tool you may need is a Robertson drive. This is the drive with a small square bit to fit into the square holes of the screws.

First we must remove the back of the media cabinet door. I used a Makita cordless drill with the Robertson bit. It makes removal faster and easier. To find the screws, the rubber gasket must be pulled back from the edge of the door as shown in *photograph 6*. There are 12 screws in all, 4 screws on either side of the door and two screws on both the top and bottom edge. The back plate is not heavy and should be placed away from the door.

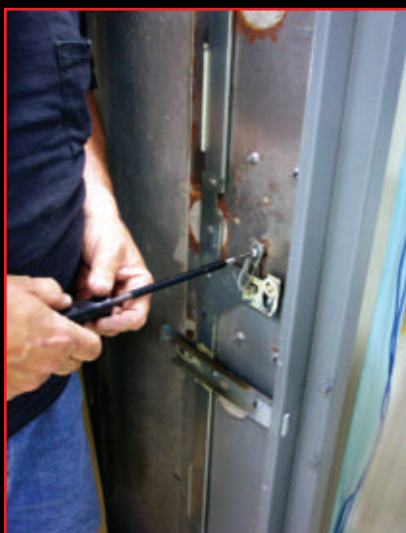
There are three active locking bolts that hold this door secured when locked. They can be seen in *photograph 7*. I tried the door without the back panel on and it closed and opened easily. A close up of the center bolt is shown in *photograph 8*. In this picture the cam on the Medeco lock is thrown to capture the end of the handle attachment. This holds the handle bar in

the locked position and does not allow it to move. The center locking bolt is extended and in the locked position.

When the Medeco lock is turned it raises the cam away from the lever attached to the handle. This allows the handle to push up the inside vertical lever bar which allows the bolts to be pulled into the safe door. This can be seen in *photograph 9*. Also, the four speed nuts can be viewed in this picture. They can be removed either before or after removing the cam lock.

The locking bolts are pulled in this photograph. Before we can remove the broken handle and plate, the cam lock must be removed. This is accomplished on the Medeco cylinder by removing the large Phillips screw that holds on the cam and limit washer, (see *photograph 10*).

Afterwards, the inner cylinder can be pulled out, as seen in *photo*



10. Elimination of cam lock and cam by removal of large screw.



11. Long Medeco cam lock pulls out of door easily.

Statement of Ownership, Management, and Circulation			
1. Publication Title		2. Issue Date	
The National Locksmith		09/01/2005	
3. Issue Frequency		4. Number of Issues Published Annually	
Monthly		12	
5. Annual Subscription Price		6. Number of Subscriptions	
\$4.00		12	
7. Total Number of Copies (Net press run)		8. Total Number of Copies (Net press run)	
1555		1555	
9. Total Number of Copies (Net press run)		10. Total Number of Copies (Net press run)	
1555		1555	
11. Total Number of Copies (Net press run)		12. Total Number of Copies (Net press run)	
1555		1555	
13. Total Number of Copies (Net press run)		14. Total Number of Copies (Net press run)	
1555		1555	
15. Total Number of Copies (Net press run)		16. Total Number of Copies (Net press run)	
1555		1555	
17. Total Number of Copies (Net press run)		18. Total Number of Copies (Net press run)	
1555		1555	
19. Total Number of Copies (Net press run)		20. Total Number of Copies (Net press run)	
1555		1555	
21. Total Number of Copies (Net press run)		22. Total Number of Copies (Net press run)	
1555		1555	
23. Total Number of Copies (Net press run)		24. Total Number of Copies (Net press run)	
1555		1555	
25. Total Number of Copies (Net press run)		26. Total Number of Copies (Net press run)	
1555		1555	
27. Total Number of Copies (Net press run)		28. Total Number of Copies (Net press run)	
1555		1555	
29. Total Number of Copies (Net press run)		30. Total Number of Copies (Net press run)	
1555		1555	
31. Total Number of Copies (Net press run)		32. Total Number of Copies (Net press run)	
1555		1555	
33. Total Number of Copies (Net press run)		34. Total Number of Copies (Net press run)	
1555		1555	
35. Total Number of Copies (Net press run)		36. Total Number of Copies (Net press run)	
1555		1555	
37. Total Number of Copies (Net press run)		38. Total Number of Copies (Net press run)	
1555		1555	
39. Total Number of Copies (Net press run)		40. Total Number of Copies (Net press run)	
1555		1555	
41. Total Number of Copies (Net press run)		42. Total Number of Copies (Net press run)	
1555		1555	
43. Total Number of Copies (Net press run)		44. Total Number of Copies (Net press run)	
1555		1555	
45. Total Number of Copies (Net press run)		46. Total Number of Copies (Net press run)	
1555		1555	
47. Total Number of Copies (Net press run)		48. Total Number of Copies (Net press run)	
1555		1555	
49. Total Number of Copies (Net press run)		50. Total Number of Copies (Net press run)	
1555		1555	
51. Total Number of Copies (Net press run)		52. Total Number of Copies (Net press run)	
1555		1555	
53. Total Number of Copies (Net press run)		54. Total Number of Copies (Net press run)	
1555		1555	
55. Total Number of Copies (Net press run)		56. Total Number of Copies (Net press run)	
1555		1555	
57. Total Number of Copies (Net press run)		58. Total Number of Copies (Net press run)	
1555		1555	
59. Total Number of Copies (Net press run)		60. Total Number of Copies (Net press run)	
1555		1555	
61. Total Number of Copies (Net press run)		62. Total Number of Copies (Net press run)	
1555		1555	
63. Total Number of Copies (Net press run)		64. Total Number of Copies (Net press run)	
1555		1555	
65. Total Number of Copies (Net press run)		66. Total Number of Copies (Net press run)	
1555		1555	
67. Total Number of Copies (Net press run)		68. Total Number of Copies (Net press run)	
1555		1555	
69. Total Number of Copies (Net press run)		70. Total Number of Copies (Net press run)	
1555		1555	
71. Total Number of Copies (Net press run)		72. Total Number of Copies (Net press run)	
1555		1555	
73. Total Number of Copies (Net press run)		74. Total Number of Copies (Net press run)	
1555		1555	
75. Total Number of Copies (Net press run)		76. Total Number of Copies (Net press run)	
1555		1555	
77. Total Number of Copies (Net press run)		78. Total Number of Copies (Net press run)	
1555		1555	
79. Total Number of Copies (Net press run)		80. Total Number of Copies (Net press run)	
1555		1555	
81. Total Number of Copies (Net press run)		82. Total Number of Copies (Net press run)	
1555		1555	
83. Total Number of Copies (Net press run)		84. Total Number of Copies (Net press run)	
1555		1555	
85. Total Number of Copies (Net press run)		86. Total Number of Copies (Net press run)	
1555		1555	
87. Total Number of Copies (Net press run)		88. Total Number of Copies (Net press run)	
1555		1555	
89. Total Number of Copies (Net press run)		90. Total Number of Copies (Net press run)	
1555		1555	
91. Total Number of Copies (Net press run)		92. Total Number of Copies (Net press run)	
1555		1555	
93. Total Number of Copies (Net press run)		94. Total Number of Copies (Net press run)	
1555		1555	
95. Total Number of Copies (Net press run)		96. Total Number of Copies (Net press run)	
1555		1555	
97. Total Number of Copies (Net press run)		98. Total Number of Copies (Net press run)	
1555		1555	
99. Total Number of Copies (Net press run)		100. Total Number of Copies (Net press run)	
1555		1555	



12. After removing 4 speed nuts, mounting escutcheon pulls out.



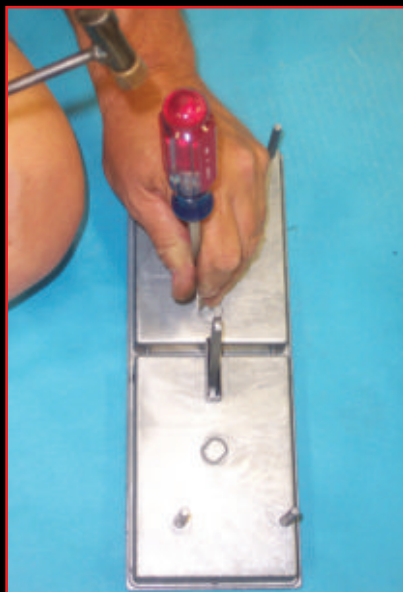
15. Removing cam lock housing. Note posts for speed nuts (4).

tograph 11. This is a very long cylinder. The outer core of the cam lock is still secured to the back of the escutcheon. There is a double stick tape ring around this core that states when the cam lock is in the locked position. There is a new sticky ring and 4 new speed nuts included with the new handle-opening unit.

With the speed nuts removed and the cam lock removed, the entire plate can be pushed out of the door. In *photograph 12*, we see the plate removed and it is easy to see the left side of the handle is broken. The vertical slot below the cam lock hole is for the handle extension that actually sticks through the door. This triangular shaped piece of metal does the actual locking and locking of the inner bolts. *Photograph 13*, shows both the old handle escutcheon on the left and the new handle on the right. The handle on the right can



13. Old broken handle plate on left, new plate on right.



16. Punching out knock out with screwdriver and small hammer.

be configured for any lock installation, key or combination. The secret is on the back of the cast metal handle escutcheon.

Photograph 14, shows the new handle plate back with two knock-outs. In *photograph 15*, we see a better picture of the four posts that the knockout nuts are attached to. The lever-activating bar is also more apparent. In this photograph, I am using my special metric fit-all vice grips to remove the nut from the outside core of the Medeco cam lock. Once the cam lock core is removed from the old escutcheon, place it beside the new plate, mark which hole is to be punched out (check it twice)



14. Knock outs are marked on back of new handle plate.



17. Filing to fit for the sides and threads of cam lock outside.

and then proceed to knock out the thin metal casting.

For this job, I used a screwdriver and small brass hammer. It was easy to punch through the metal casting at this point, (*see photograph 16*). To allow the cam lock to fit, it was necessary to slightly enlarge the knock out hole. I had to widen the hole slightly for the double "D" side of the cam lock and the length, for the lock and the external threading of the core cylinder, (*see photograph 17*). Now it was just time to put everything back together.

I inserted the escutcheon with cylinder back into the front cutout and pushed it gently into place. After a few Karate chops, it fit nicely. I installed the 4 new "Speed-Nuts" supplied with the handle and the sticky indicator ring around the outside core of the Medeco lock. I then inserted



18. Pinning the door to facilitate reinserting the Robertson screws.



19. Job Well Done! Old plate on top of media cabinet.

the cam lock core, the directional washer, the cam plate and the screw holding it all together. With a little adjustment, it worked perfectly. The lever and handle worked perfectly too. The door closed and opened easily. I had not installed the back plate yet.

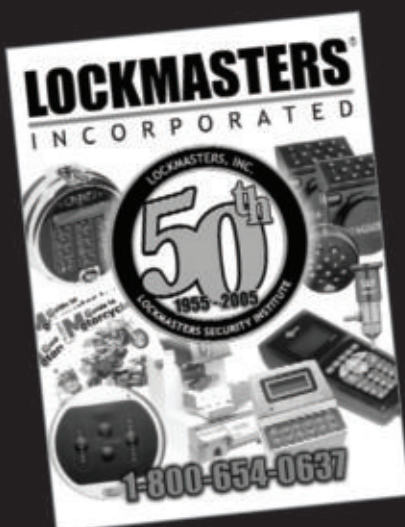
In *photograph 18*, you see me installing the back door plate. To make things easier, I first pinned the door in place with a scratch awl. This made inserting the first Robertson screw with a magnetic screwdriver much easier. After three screws were installed, I removed the scratch awl and installed the rest of the screws. Total time of the job was an hour. It would have been shorter if I did not have to stop for photo opportunities.

If I had been called on to open this safe because the keys were lost, there would be two ways to attack the problem. If you felt like drilling the Medeco lock you could waste a couple of

StrongArm drill bits and do that. That would be messy and time consuming. I would opt to hole saw the escutcheon plate (just the plate) around the cam lock itself and not hurt the lock at all. This would be faster and easier than drilling the protected Medeco lock. Once the hole was drilled, the lock and body of the cam lock could be turned to unlock the inner slide mechanism.

If called on to open a similar unit with another lock and/or combination lock, whether digital or mechanical, then that lock must be defeated in the traditional manners depending on which lock is used. *Photograph 19*, is my AFTER trophy shot. The old handle plate is lying on top of the media safe next to my left elbow. Note, I have changed my clothes. Working at *The National Locksmith* magazine is a fun and challenging place. Open, Repair, and sometimes Prosper.

TNL



**Our New
2005 Tool Catalog
is Here!**

Request your Free Copy Today!

Just call our 800 number and request a copy from one of our helpful customer service reps or Visit us on the web.

LOCKMASTERS[®] INCORPORATED

Update your transponder equipment now. Updates are available for the SDD and NGS using the CAN programming procedures. Make sure that you have your machines updated so you will be able to program these 2004 and 2005 vehicles using this system.



NGS CAN **\$699.00**

There are two updates available for the SDD:

Ford CAN **\$949.00**

(Includes Toyota-Lexus)

Chrysler CAN **\$225.00**

(Includes 5 free Y-one-six-zero P-T keys)

Also available Nissan encrypted key blanks. One blank works on all the encrypted Nissan models. Call for Details!

800.654.0637

Fax 859.885.7093

lockmasters.com • salesinfo@lockmasters.com

TECHNITTIPS

Prizes Awarded From These Companies Every Month!



Web: www.demanda1.com

Able Locksmiths

Web: www.ablelocksmiths.com



Web: www.abuslock.com



Web: www.cclsecurity.com

The DETERMINATOR™



Phone: (800) 561-0443



Web: www.hingedoctor.com



Web: www.hpcworld.com



Web: www.jlmwholesale.com



Web: www.keedex.com



Web: www.labpins.com



Web: www.majorimg.com



Web: www.mcdonaldddash.com

YEAR-END PRIZES



Grand Prize

Silca Bravo Duplicator



1st Prize

HPC's 1200PCH Punch Machine



2nd Prize

Kaba Access Control E-Plex E-5031



3rd Prize

SDC Magnetic Lock, Keypad and Exit Switch



4th Prize

Securitron 12-Volt Unlatch Plug in Trans & Touchpad Retail Value \$650



5th Prize

LaGard "SmartLinc"



6th Prize

Detex Advantex



7th Prize

Arrow 400 Series Alarmed Exit Device & S-75 Mounting Plate Kit for Narrow Stile Aluminum Doors



8th Prize

\$500 in ASP Auto Locks

Send in your tips, and win!

How To Enter:

Send a tip on how to do any aspect of locksmithing. Certainly, you have a favorite way of doing something that you would like to share with other locksmiths. Write your tip down and send it to:

Jake Jakubowski, Technitips Editor, The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107-1861

Or send your tips via E-mail to: Natllock@aol.com

Rules & Regulations: Each tip submitted must include your full name, street address (no P.O. Box numbers), city, state, zip code, phone number, fax number and e-mail address **When sending tips via e-mail make sure to include complete address and phone.**

Every Tip Published Wins: If your tip is published you will win one of the monthly prizes listed. At the end of the year, we choose winners from all the monthly tips published, that will be awarded one of the fabulous year end prizes. All you have to do to win is enter.

Prizes are arranged according to suggested retail price value.



9th Prize

\$500 in Strattec Auto Products



10th Prize

Tech-Train "Jiffy Jack"



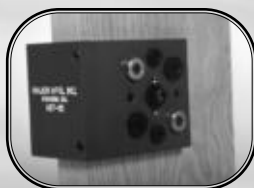
11th Prize

Sargent & Greenleaf
6120 Electronic Safe Lock



12th Prize

High Tech Tools
2004 Pro Set



13th Prize

Major Manufacturing's
HIT-111 Drill Guide



14th Prize

Baxter #90 10-Cut
GM Try Out Key Set



15th Prize

Sieveking Products
Squeeze Play



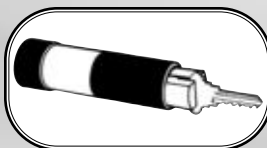
16th Prize

A-1 Security
Manufacturing
Installation Jig



17th Prize

Keedex Sampler



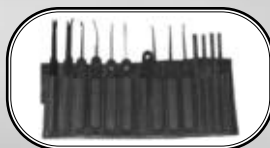
18th Prize

Framon
Impressioning Handle



19th Prize

Gator Tool Multi-Purpose
Facecap Tool



20th Prize

Peterson Picks,
by Peterson Manufacturing

**Prizes Awarded From
These Companies
Every Month!**



Web: www.midwestwholesale.com



Web: www.monarchcoin.com



Web: www.numberall.com



Web: www.peterson-international.com



Web: www.pro-lok.com



Web: www.sargentandgreenleaf.com



Web: www.securitron.com



Web: www.southernlock.com



Web: www.steckmfg.com



Web: www.strattec.com



Web: www.wedgeco.com

**E-MAIL YOUR
TIPS AND WIN!**
Natllock@aol.com

**Tips Start
on Next Page**

E-MAIL YOUR TIPS AND WIN! *Natllock@aol.com*

Bright Follower Idea

I used to have a hard time seeing into cylinders when reloading springs and drivers. That was before I started using a MagLite AAA Solitaire flashlight as a follower. It is .500 in diameter and it lights up a cylinder brightly. I think they are about \$5.00, which is less than a standard follower you buy from your supplier.

After you try one, you'll never go back to your old ones.

*Mike Cash
California*

Abus 83KnK/83 Shackle Change

The Abus 83KnK/45 Series padlock is made to accept universal key-in-knob cylinders from many manufacturers. Sal Dulcamaro wrote about these and others in January 2005. His article did not address replacing shackles on this specific line.

We had a need for some $\frac{5}{16}$ " diameter long shackle padlocks in a restricted keyway and felt this product would be suitable. Unfortunately, no written instructions are available for shackle replacement and they do not utilize the *Quick Shackle Change* feature available on other 83 Series Abus padlocks.

With some diligence we discovered that the shackles are indeed removable and replaceable. To remove, start without any cylinder in the padlock body and the shackle locked.

• Press down on the shackle by hand to relieve spring tension, then remove the driver and locking ball. The driver can easily be pulled from the body using pinning tweezers and the locking balls will fall out.

A Few Words From Jake...

At *The National Locksmith* it takes about sixty days (2-months) for Greg Mango to get articles from his contributing writers for columns like this one, get the graphics and layout through production and after a final editing; sending the magazine to the printer and get it delivered to your mailbox.



*by Jake
Jakubowski*

So, if you have sent in a tip in the last few weeks, or even months, and wonder why it hasn't appeared in print yet—the foregoing is one reason. Another reason might be that the tip you sent in is still in “the can,” but has not been factored into the column yet. Sometimes tips get printed a year, or more after they've been sent in, it just depends on how many tips we currently have and where you fall in the mix. For example: if we have 60 or more tips currently in the can and you send in a tip. It could be 8-months before you see your tip printed which includes the 2-month lag time.

A final reason why your tip may have not been printed is that I just didn't feel it was usable—for whatever reason. The reasons tips don't get printed are as varied as the tips themselves.

Yet, if you have sent in a tip and after six months or so, you haven't seen it printed, I won't mind if you re-submit it, or send me a new one. Maybe the new tip will be the one that gets you a great monthly prize and puts you in the running for our year-end drawing. Just don't give up! The more tips you send in, the better chance you have of getting one published.

Will I notify you that I've received your tip? No. Will I notify you when your tip is going to run? No. Will I drop you a note making suggestions on submitting your tip? No.

Why not, you ask?

Because it's just not feasible considering the numbers I am dealing with. If I use your tip, it will appear in the magazine at some time. If I don't use it—try again.

I truly appreciate everyone that submits a tip. Without those submissions, I couldn't write this column month, after month. So, like the old radio evangelist used to say: “Keep them cards and letters coming, folks!” Because one of them, might be the one I'll include in a future issue of this column...

See y'all next month...

• You can then pull out the old shackle and replace it with the desired hardened alloy, brass, or stainless steel version.

• To reassemble, drop the locking balls back into the cavity, a dab of grease will hold them in position if necessary, and then insert the driver.

The No. 83KnK/45 with $\frac{5}{16}$ " shackle and 1-3/4" body has hardened steel shackles available in

1", 2", 3", 4" & 6" lengths and 1", 2", 3" or 4" brass or stainless steel. The No. 83KnK/50 with $\frac{3}{8}$ " diameter shackle and 2" body width offers 1", 2", 3" or 4" hardened steel, brass or stainless steel, while the No. 83KnK/55 with $\frac{7}{16}$ " shackle and 2 1/2" body width offers 1 1/2" or 3" hardened steel. With 27 different shackles you can “build” just about any size padlock desired.

*Peter P. Schifferli
New York*

Straight Drilling Tip

No matter how straight I try to drill a pilot hole, it often comes out the other side of the door either high, low, or off to one side. No big deal for just a single hole installation, but for multi-hole installations (mortise locks, pushbutton locks or panic bar trim) the hole centers are critical.

Correcting misaligned holes is frustrating and time consuming, and it makes you look less professional. So, I made a simple guide that allows me perfect accuracy every time.

First I purchased hardened bushings with a 1/4" center hole from a machine shop supplier. The bushing had a 9/16" outside diameter so I drilled a 1/2" hole into a piece of flat steel (3" long, 2" wide and 3/8" thick). Then I welded a 6" handle (1" square tubing) to the flat steel for holding the tool so that I do not have to waste time clamping it to the door.

Now when installing hardware, I first lay out and center punch all holes from one side of the door. Holding the bushing over the marks, I drill all of my 1/4" pilot holes. It's a pleasure to see each of the holes come out of the door perfectly aligned.

I've also made a second tool with a lip that lays against the door edge so that the bushing is at a 2 3/4" backset. This works well for spindle and cylinder holes and the original tool works for drilling mounting holes. I also used duct tape to cover one side of the tool so that there is no scratching of the door.

*Michael Spencer
Ontario Canada*

Editor's Note: Michael, thanks for the tip. I would like to mention that Major Manufacturing, one of this column's sponsors, makes a variety of great easy-to-use installation jigs and templates. Many of them are designed to provide more than one installation function, and if you decide to add any of them to your toolbox, I know you will be more than satisfied.

Storage Boxes For Mobile Vans

Being mobile, we have to carry most keys on a board or rack. Over the years the number of keys we need to inventory on our van has grown proportionately. In the past, we have used fishing tackle boxes and anything handy that might carry ten, or so different blanks. This meant that each box would carry between twenty and thirty different key numbers.

Other keys were stored in big cardboard boxes in the cabinet of

the van. The boxes would fall apart over time and we'd wind up with a mess of keys in a pile.

One day I stumbled upon a refrigerator that was being salvaged. I realized that the bins that hold items on the door side would make excellent key storage racks. The bins are roughly four to six inches wide and ten to twelve inches long. They are also made from extremely durable plastic.

ITL 950C

MOBILE CODE MACHINE

The only machine that does it all in less time for less money!

**CODES
CODES
CODES**

Most Domestic, Japanese, and Korean Car Codes are now built in.

The new ITL 950C: the most cost effective code machine ever!



The ITL 950C Mobile Code Machine is a black, industrial-looking device with a control panel on the right side featuring a digital display and a keypad. A label on the machine reads "ITL 950C Wear Eye Protection".

Windows™ interface for built in Masterkey system printing and saving • Domestic car codes included • Both 12 volt and 120 volt usage standard • One cutter emulates all flat widths

- Four line display with menus • RS232 communication port • Repeatable accuracy +/- .002
- 1 year parts and labor warranty • Over 500 manufacturers depths and spaces built in
- Finds, loads and cuts a car key in 15 seconds • Call for introductory CD or video 888-264-6627

Phone: (888) 264-6627
(604) 852-8904
USA: (562) 699-0060

INTRALOCK
TOOLS LIMITED

2639-B Progressive Way
Abbotsford, B.C.
V2T 6H8

Serving industry with superior key machines since 1985.
www.intralocktools.com

These bins have held up very well for about three years now. They're still attractive and hold all the keys we need on our van—even with the demand for new key blanks.

To help inventory the keys, we keep them in the plastic bags they come in (ten to a bag) and a handy inventory sheet tells where each key is located. Sure has saved us a bunch of time and money.

Marilynn H. Brown
Washington

E-MAIL YOUR TIPS AND WIN!

Natllock@aol.com

"F" Series Manipulation Tip

This tip involves manipulation of the locking shaft on the "F" series knob set with the one-

piece knob and cylinder with collapsible retainer. I have not tried it on a lever set.

With the knob set on the door or in a vice, remove the outside knob and look into the lock body. You will see a flat locking shaft that can be turned with needle nose pliers to lock or unlock the knob. The other end is at the turn button.

Lets say the knob retainer is on the left side being pushed out by the retainer spring. You can slip a Weiser shim tool or other pick between the retainer and spring and onto the locking shaft. You can then manipulate it up with the shim to a little past 45-degrees and the knob will release. That will allow you to retract the latch to open the door. It helps to turn the knob back and forth to aid in retracting the latch. The locking shaft is spring-loaded and will try to flip back to the locked position.

This trick will also work on other locksets where a round wire or flat shim can be inserted at the retainer or the hole on the opposite side of the retainer to manipulate the tailpiece enough to depress the knob retainer

Howard Krutzler
Oregon

Tricky House Opening

I have found yet another way to gain entry to a locked house or just about any door where only the knob is locked.

I use my super wedge air bag to help spread the door (and in some cases this is all it takes) so I can use my special tool from Snap On to push back the latch and open the door. This amazing little tool is one of the *cotter pin pullers* that Snap On tools sells. The number of the tool is a173a.

All you have to do is insert the tool so that the tip is in line with the latch and turn the tool inward to contact the latch and then push in like you are trying to pry

The National Locksmith®

Guide To Motorcycles

Volumes 1,2,3,4 & 5

by John Blankenship

Choose Book or CD ROM

For years locksmiths have begged for comprehensive service manuals on motorcycles, and they are finally here! Covering a wide range of service procedures, you'll know everything a locksmith needs to know about each cycle. Plus, you'll get step by step photographs and instructions.

If you have ever been frustrated by cycles made by the following manufacturers, you'll need these comprehensive books...

- Aprilia • BMW • Buell • Cagivi • Ducati • Givi • Harley-Davidson
- Honda • Indian • Kawasaki • KTM • Malaguti • Moto Guzzi • MZ
- Neiman • Suzuki • SYM • Triumph • Vespa • Yamaha • Zadi

NEW! Volume 5

Buy all 5 volumes in the online store!
TheNationalLocksmith.com

OID 0405

<input type="checkbox"/> Any Single Volume..... \$99.00 + \$8 s/h <input type="checkbox"/> Any Two Volumes..... \$149.00 + \$8 s/h <input type="checkbox"/> Any Three Volumes \$199.00 + \$8 s/h <input type="checkbox"/> Any Four Volumes \$249.00 + \$8 s/h <input type="checkbox"/> All Five Volumes..... \$299.00 + \$8 s/h	<input type="checkbox"/> I've enclosed a check or money order for \$ _____ OR charge my <input type="checkbox"/> VISA <input type="checkbox"/> MasterCard <input type="checkbox"/> Discover <input type="checkbox"/> American Express Credit Card # _____ Expiration Date _____ Signature _____ Your Name _____ Shop Name _____ Address (No P.O. Boxes) _____ City _____ State _____ Zip _____ Phone (____) _____
---	--

Choose the Volumes you are ordering...

☐ Vol. 1 ☐ Vol. 2 ☐ Vol. 3 ☐ Vol. 4 ☐ Vol. 5

☐ Complete Set of All 5 Volumes

Please choose a format: ☐ Book ☐ CD-ROM

(U.S. add \$8 s/h per order. Foreign & Canada add \$20 s/h per order. Orders must be paid in U.S. funds)

Mail coupon & payment to: **The National Publishing Co.** • 97592 Eagle Way • Chicago, IL 60678-9750

the door open. With the air bag spreading the door, this will allow the latch to be pushed back and you're in.

I find that about 75% of the time I don't need the air bag to gain entry.

It is so easy and fast that you can—with a little practice—do this with one hand in your pocket and gain entry in about 5 seconds or less.

Anyway this does work very quickly and on occasion I've had a customer complain about how much it cost them to let me in their house when it only took such a short time to do the job. So, I will often "stretch" the procedure out in order to make the customer feel they're getting their money's worth.

*Ron Kluge
Pennsylvania*

Cell Phone Code Keeper

I don't always have a paper and pencil on hand, so when I have to cut a key by code on the road I look up the number and then enter the cuts in my cell phone. Since I've always got the phone with me, I find it easier to keep track of the codes this way.

When necessary, I also enter VIN and odometer information with purchase order numbers as well.

It's then a simple matter of entering the information on my invoice and when no longer needed, I simply delete it.

*Neil Jacob
New Jersey*

Scratch-Proof Tool Trick

As a locksmith in the sunny state of Arizona, I am very often faced with locked vehicles that have aftermarket dark tinting on their windows.

Because of the density of some of this tinting, it is very difficult to use the handy "under the window" tools and not scratch the inside tint. After paying for a customer to

have their passenger window re-tinted, I decided that I needed to make my tools scratch proof.

I went to Radio Shack, (You can get it at nearly any electronics or electrical store) and picked up some 3/16" heat-shrink tubing. I slid the tubing around the tool and then heated it up using a hair dryer. It has works great! No more scratches.

*Jared Rasmussen
Arizona*

Removing Plastic Door Clips

My tip is for removing the plastic buttons that hold door panels and various other things in place on vehicles.

I find that a regular claw hammer works really well. The claw portion will actually grasp the plastic button from underneath and pull it out easily. When it is time to put the buttons back in, use the head of the hammer to tap the clip back into place.

Speed. Strength. Flexibility

SARGENT®

10-Line

SARGENT's new 10 Line surpasses all competitive products in strength and durability. The unique lock design exceeds Grade 1 requirements. At over 4,000,000 cycles, the 10 Line beats the closest competitor by 30%. As for abusive force, this lock endures more than one and a half times the standard without allowing entry!



If you're looking for flexibility, the 10 Line offers twenty-two different functions and six different lever designs, including Coastal Series decorative designs. The through bolt positions are adaptable to fit almost any door preparation. Best of all, the lock can be installed in one minute or less, making installation as easy as 1-2-3!

DUGMORE DUNCAN
SECURING YOUR WORLD

(888) 384-6673 www.dugmore.com

I have found this method has worked for me better than some of the specialty tools that I have bought that were supposed to do the job.

*Jim Hawks
Iowa*

Editor's Note: Jim, thanks for the tip and I have to admit that I've used just that method to remove and replace certain kinds of clips and caps. However, I feel it is necessary to warn readers (especially new ones) that many of the newer cars use clips can break or become useless if removed the way you suggest.

Easy Key for Mercury Mountaineer

While making keys for a 1996 Mercury Mountaineer, I found an easy way to make those keys without removing a lock!

Raise the rear deck lid and shine a good strong flashlight through the louvered vent holes along the bottom of the lid, at the same time insert a blank key into the lock. You can now read the wafers through the drain hole at the bottom of the lock.

You may have to run the key in and out a couple of times to see all of the wafers. Once you get a working key for the rear deck lid, it's a simple matter of getting the other cuts by progressing them from either the door lock or the ignition.

*Ken Smith
Georgia*

Tool Modification Tips

I believe anyone that does automotive work should have the Gator Tool and the Wafer Popper. I love them. However, I have made a few modifications to both, making them, as far as I am concerned, far more effective.

The Gator Tool:

1. If the Gator Tool is not adjusted just right, the ridge in the bed on which the facecap sits during the re-capping process, can dent the cap. With a Dremel tool, I decreased the radius of this dimension then polished it, making it less aggressive. Problem solved.

2. Stainless steel face caps have a tendency of chewing up the underside of the crimping screws. I replaced them with stainless steel screws, which have heads of a slightly larger dimension, which not only resist scoring, but also make the crimping process easier.

3. As per the instructions with the tool, Steve advises the screws may require re-adjustment throughout the crimping process. I eliminated this need by placing common wing nuts on the underside of this tool to lock the crimping screws in place once you have them where you want them. Works great.

Wafer Popper:

4. Right out of the box, I bent the tip used to pop a wafer out, because I had a heavily corroded plug. Out of a pick handle, I cut two plates and drilled them for two Allen screws used to mount on the popper tip. I placed one on either side of the tip allowing them to protrude over the side of the tool by 1/8". This does not affect the performance of the tool, but these back-up plates make the tip stronger. Also, the plate between the tip and the tool moves the tip away from the tool enough to prevent the popper from pushing the wafer down into the lower jaw of the tool, which can happen if you're not careful (like me).

In addition, one of the men in my shop uses a ladies fingernail file ground to the dimensions of a wafer to clean corrosion out of wafer chambers once a wafer is popped out. This is now a must-have tool in my kit.

*Mark Wilson
Fredericton, N.B.*

Tricky Top Pin Loading

While out re-keying some locks, I discovered after dumping out all the top pins that I did not return my tweezers to the pin kit after using them to pin some padlocks on a previous job.

If you have ever tried loading top pins without tweezers it is not that easy of a task. I thought I

could use the forces of gravity and alignment to work those springs and pins into place. Hah!

What I discovered was that my follower for Weiser locksets is designed to help load top pins. In the notched end of the follower there is another small slot in which you can drop a pin and align it with the hole and spring, then using a pick you can push the pin into place. Although I have used that follower many, many times, I never realized it was designed with this function. Try it, it works great.

Tip #2: While changing a lock on a door I noticed that the bottom hinge needed to be shimmed to bring the door into better alignment, all I had with me was a tool box and all I could find in there that might work as a shim was some hacksaw blades. I loosened the hinge and slide a blade behind it.

I was going to mark the blade at the right size to cut for a shim, but I had nothing right at hand to mark it with so I thought I could bend it a bit and use that as a guide. However, when I did that the blade snapped right off, nearly flush with the hinge. I did another; placed it behind the hinge and tightened the screws. It worked fine.

Since then I have done this several times. My tip is to keep those old blades for shimming door hinges, they are quick, the right size and work great.

*Kevin L Veinot
Nova Scotia, Canada*

Editor's Note: Kevin, good idea, but be careful when you break a hacksaw blade. Pieces of that sucker can fly everywhere!

TNL

**E-MAIL YOUR
TIPS AND WIN!**
Natllock@aol.com

2002 _____ SUZUKI® Intruder Volusia



by
**John
Blankenship**



1. The owner had lost the key to this cruiser and needed another. There are three locks on this bike; the ignition/steering lock, the gas cap lock, and the helmet lock. The helmet lock was behind the left saddlebag so I was unable to easily gain access to it.



2. Pick the gas cap 90-degrees clockwise and remove it by pulling it straight up. This lock picked very easily with a rake.



3. Remove the two Phillips screws and pull straight up on the lock bolt housing to remove it.



4. The lock bolt housing has been removed revealing the backing plate.



5. The backing plate and lock housing have been removed by pulling them straight up.



6. The tailpiece was removed by using pliers to grasp it and pull it out. It was stubborn and needed a strong pull to get it out.

7. The retainer is visible on the upper side of the plug. Depress it and push the plug out the front. Be careful and do not allow any wafers to spring or fall out.



Framon #2D

Includes FREE Genericode Me!

**We've Taken The #2 Code Machine
One Step Further With Digital Readouts!**

The Framon #2 has been a locksmith favorite for years. This year, we're proud to introduce a new member of the Framon family, the #2D. Digital readouts take the place of spacing blocks and analog micrometer. Now, anyone can cut a key by simply dialing the machine to the positions found in our Depth & Space Manual!



In addition to the new look, you still get everything in one complete package, just like the #2. Included with the #2D is our Depth & Space Manual, Dial Calipers, a free copy of Genericode Me (full version), and a coupon for your choice of two free cutting wheels.

As with all Framon products, our name is synonymous with quality and durability. The 2D is no exception. A full one year, parts, labor and freight warranty are included with each machine. A wire deburring brush is also included.

For more information, contact Framon Manufacturing Company at:

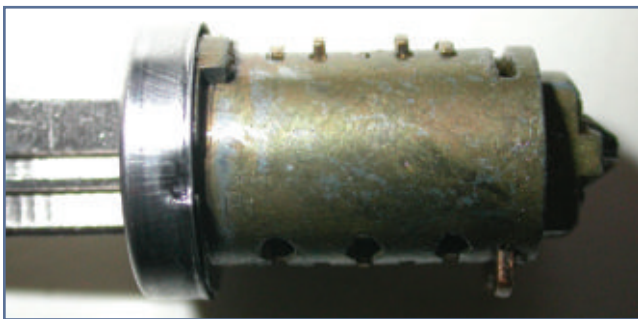
909 Washington Ave, Alpena, MI 49707

E-mail sales@framon.com

Phone: 989-354-5623

Website: www.framon.com





8. Unlike most motorcycle gas caps, this one contains wafer tumblers in spaces 1-5 and the key is shoulder stopped. The tip of the key can be seen protruding from the back of the plug. A blank inserted into the keyway shows the cuts are 23132. A search using key code software revealed there are 4 codes that use these cuts in the first five spaces. The possible cuts for spaces 6-7 are 13, 34, 31 or 43. The cuts of 2313213 turned the ignition lock smoothly. A reverse search showed that the code is A6372.



9. Both of these keys have been code cut with cuts of 2313213 and turn the locks smoothly. An Ilco X241 is on top and a Silca SZ14RAP is on bottom.



10. The ignition/steering lock is located on the right side between the gas tank and front forks.



11. The ignition lock is shown in the OFF position, which means the ignition is off but the steering is unlocked. In order to lock the steering you need to turn the steering to the right or left, insert the key, push the plug in, and turn it counter-clockwise to the LOCK

position. A slight turn past LOCK to the P position turns on the parking lights. In order to unlock the steering you need to insert the key, push the plug in, and turn it clockwise to the OFF position. Make sure the steering is not binding the locking bolt when you do this. Turning the lock between OFF and ON does not require pushing the plug in.

Codes: A6001-A7000

Blank: Ilco X241 (SUZ18), Curtis SU18, Silca SZ14RAP

Spacing: 1=.157, 2=.256, 3=.354, 4=.453, 5=.551, 6=.650, 7=.748

Depths: 1=.295, 2=.276, 3=.256, 4=.236

Card Number: CMC71

DSD Number: 441

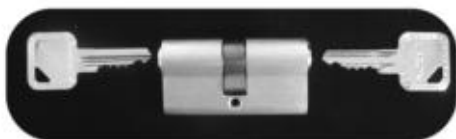
ITL Number: 523

Curtis: MZ-3 cam & SU-2A carriage

Tumbler Locations:	1 2 3 4 5 6 7
Ignition:	X X X X X X X
Gas:	X X X X X



EUROPEAN SPECIALTY LOCKS



AVAILABLE FROM



Toll Free 1-888-622-5495 • www.mbausa.com

Basically Better



service • celebrating 30 years • m



One Company... Endless Solutions

Only LA GARD could take a good thing and make it better. The LGBASIC^{II} takes the popular angular design of our current LGBASIC and merges it with the snap-on installation style of the SAFEGARD. This new design eases retrofit and plant installation and negates the need for an adapter plate.

- Simple, more flexible installation
- For use with either the 3765-2 or 3260 Dual-Handed Swingbolt Lock
- Available in Satin Chrome, Brass and Black

LGBASIC^{II}, another powerful innovation from LA GARD.

310-325-5670

Offices Located Worldwide



LA GARD, INC. 3330 Kashiwa Street, Torrance, CA 90505
Ph: 310-325-5670 Fax: 310-325-5615 Fax On Demand: 877-LAGARD2
Email: theone@lagard.com www.lagard.com

LA GARD

One Company... Endless Solutions

©2004 LA GARD, all rights reserved, a MASCO Company (NYSE: MAS)

Circle 229 on Rapid Reply

Taking Industry Products for a...

TEST DRIVE

The FlashMate by GKL



THE NEED:

Every locksmith has often faced the dilemma of how to hold a light so they can see and still do a job at night. There are many products on the market available to accomplish this task and which you choose to use is a personal decision.

One of the factors in this decision making process is which will be adjustable enough to shine light where you need it. Another factor is having batteries in the light you will be using. It is my experience that the batteries are always dead because I somehow turned the light on during my digging for other tools between uses of the light holder.

THE ANSWER:

GKL, better known for its Hinge Doctor tools, has an answer to the question, "Which light is right for me?" The FlashMate is a rotatable holder that lets you mount your light just where you want, and shine it where you need. It's just what the doctor ordered in the case of night work.

The FlashMate comes with three different lengths of rubber bands to hold different sizes of flashlights from the three-inch penlight to the two-foot Mag light, and every size in-between. The popular Mag light is especially well suited for use with the FlashMate.

The FlashMate has a built-in magnet powerful enough to adhere to any steel surface and hold the light steady should you be working where a steel surface is available. It also has an industrial grade clamp grip to grab any available support. With this clamp you can even mount the light upside down or sideways and still control where the light shines.

A full, 360-degree horizontal rotation and near 90-degree vertical adjustment targets the light on your workspace precisely. The FlashMate is so durable it even comes with a lifetime guarantee. If it ever breaks in normal use, simply return it to GKL for replacement-absolutely free. It is waterproof and is stainless steel and aluminum construction for durability.

What if you want to use the holder for more than one size of flashlight? No problem, the bands easily exchange to accommodate the different sizes you want to use. Simply keep the bands in a convenient place for easy access.

Where might you attach the holder when working on a vehicle at night? Try the bill of your cap or even the steering wheel since the vise is spring-loaded it will hold steady in most locations. How about when you need a light to change a tire or do some quick engine repair? Use the magnet to attach the light to a metal

IN SUMMARY:

DESCRIPTION: A fully rotatable flashlight holder with magnet and spring-loaded clamp. Made to hold most sizes of flashlight with a simple change of bands that are included with the tool.

PRICE: \$12.95 plus \$4.00 shipping and handling from GKL.

TEST DRIVE RESULTS: A quality product deserving of your consideration when purchasing a light holding device. It does just what it is designed to do.

I do not believe the FlashMate is available from distributors so you will have to contact GKL to get this fine product.

surface and rotate the light where you need it.

USING THE TOOL:

I have found the FlashMate to be a well-made product that is made to stand up to the rigors of years of use. It is a versatile product that does just what it advertises it can do. I like the small Mag light with its adjustable beam and the FlashMate holds it easily. To change the bands, simply slip the one in the holder out of the slots and slip the correct size back in. It will hold any light very securely.

With the jaws of the clamp opening to a full three inches it can grab most things that we work around and the magnetic surface can come in handy in a variety of locations. One of the things I like most about the FlashMate is that I know the batteries are going to be strong since I use the light I carry on my hip and use all the time. No more dead batteries when I need them the most.

For more information contact:

GKL PRODUCTS

P.O. Box 533

Herald, CA 95638

Phone: 888-446-4337

Fax: 209-748-2405

Email: sgoldst@direcway.com

